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d 1859

28 Essex Street, Strand, London, W.C.2

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AUGUST 12, 1944

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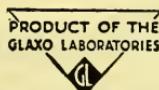
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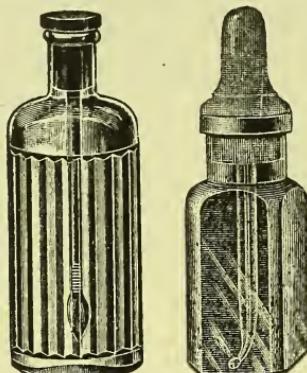
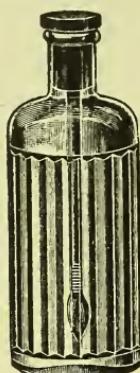


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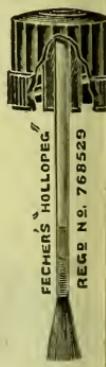
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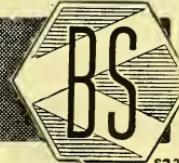
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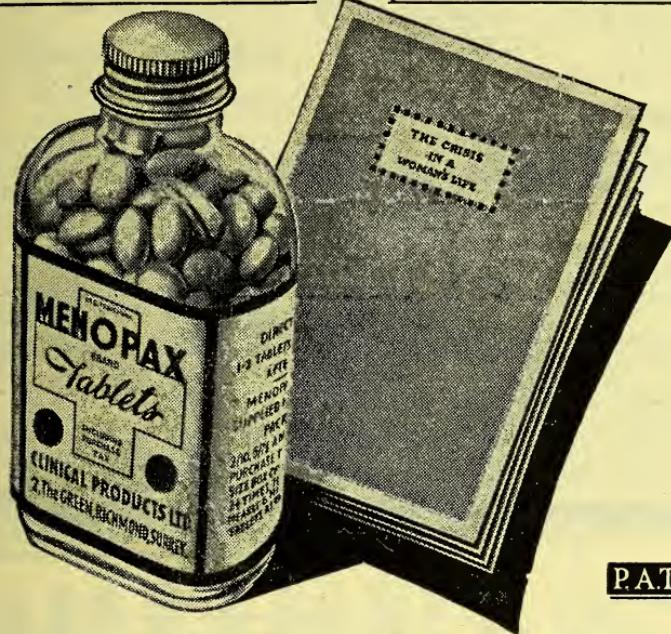
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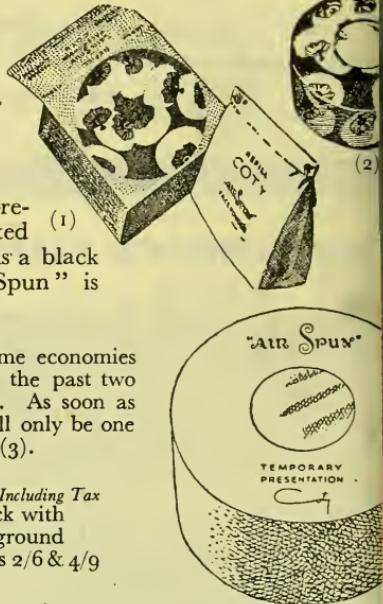
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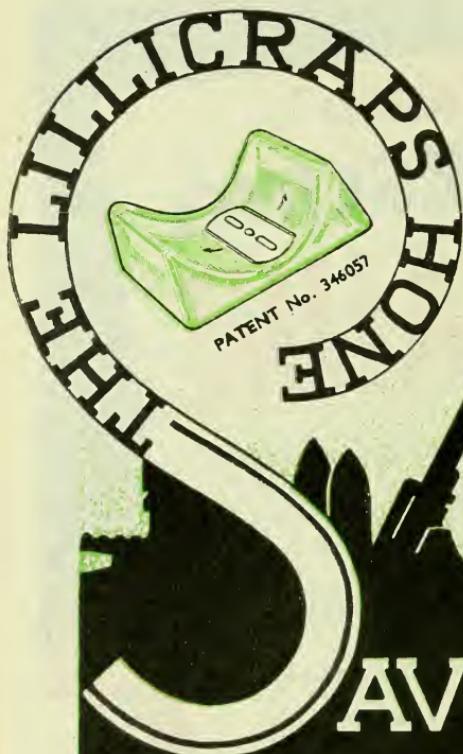


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WITH INSTRUCTIONS
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THESE HONES ARE MADE IN GLASS
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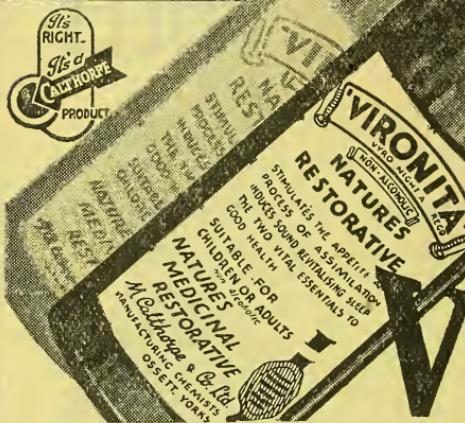
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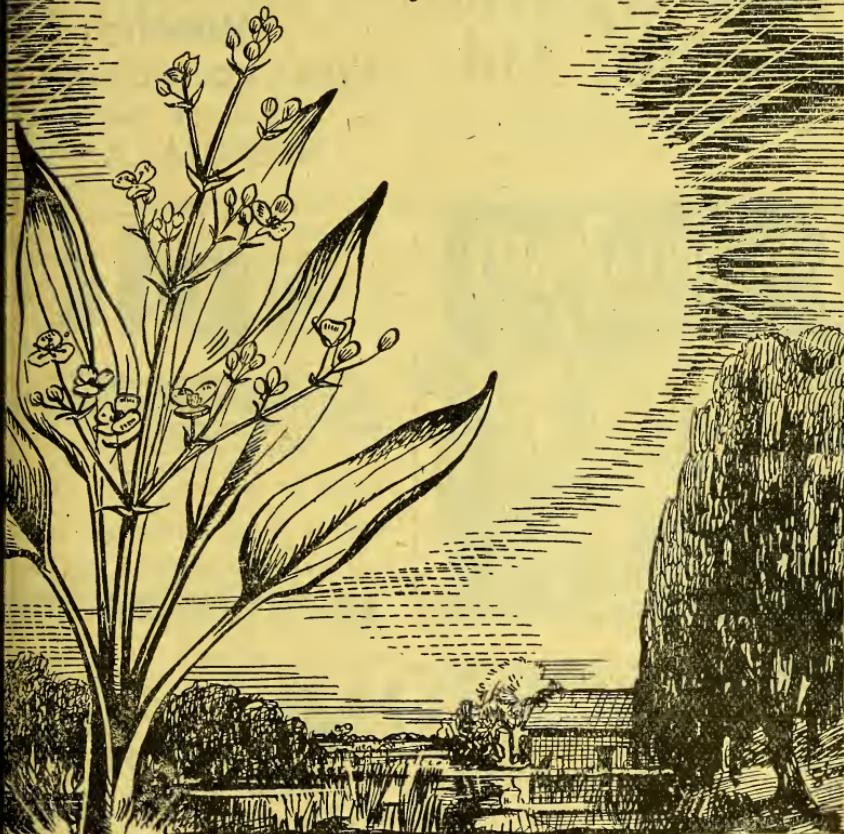
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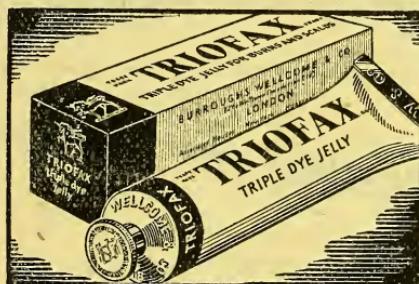
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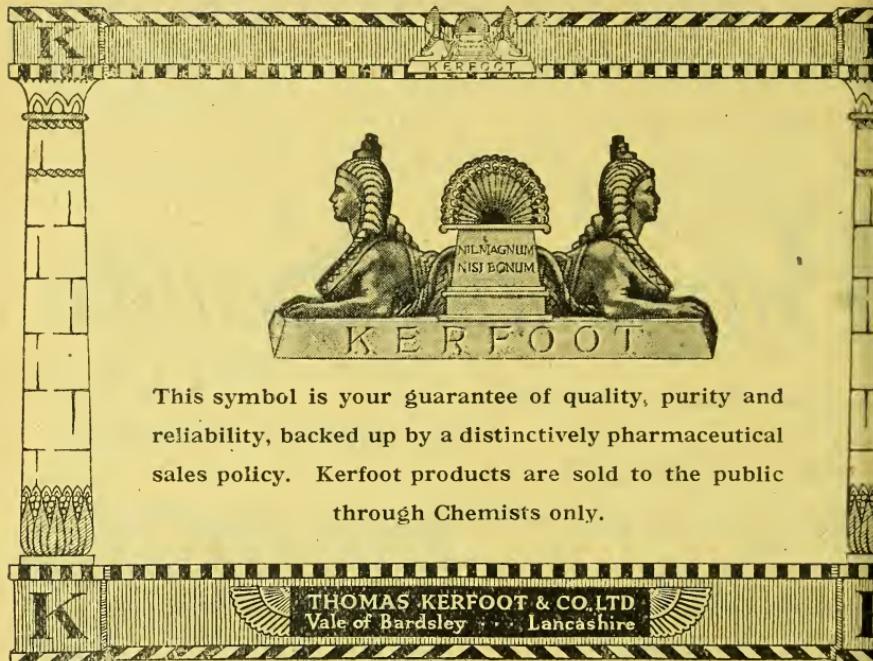


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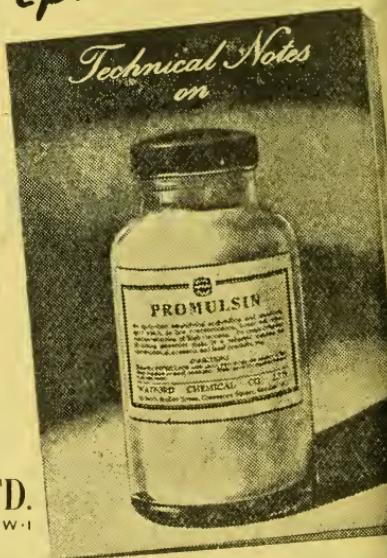
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NEWS OF THE WEEK

Double Summer Time.—The Home Secretary announced in the House of Commons on August 3 that double summer time would be extended to the morning of Saturday, September 17.

Dried Bananas Allowance Reduced.—The Ministry of Food announces that the daily allowance of dried bananas made up of cases of coeliac disease in children has been reduced from 14 lb. to 10 lb. the Ministry's medical advisers considering the latter quantity sufficient for the purpose.

Managed Business Premises.—The Chancellor of the Exchequer (Sir John Anderson) named a deputation of business men from a number of bombed towns, on August 7, to compensation for houses and business premises damaged by enemy action on a similar basis. Where business premises were up to date, of sound construction and suitably sited, the War Damage Commission would award compensation on the basis of the post-war cost of building.

Proposed Register of Medical Specialists.—A subcommittee appointed by the General Medical Council to consider the formation and maintenance of a register of specialists has recently issued a report, in which it states that the immediate object of such a register would be to provide the authorities responsible for the organisation of a service of specialists, as part of the proposed National Health Service, with an authoritative and convenient means of ascertaining whether any particular registered medical practitioner is eligible to hold such an appointment. The future object is to establish and maintain a standard of post-graduate medical qualification and experience which will guarantee that registered medical practitioners who have, in the opinion of the Council, attained the requisite standard, can be properly recognised.

High Prices Refused for Saccharin.—A Scottish correspondent writes that Scottish chemists are turning a deaf ear to requests from certain ice-cream vendors, who are offering high prices for saccharin and other sweetening agents.

Continued Shortage of Teats in Scotland.—Notwithstanding Government statements that more rubber has been released for the manufacture of feeding-bottle teats, it is understood that there is an extreme scarcity of these articles in Scotland. Even those which, on rare occasions, are obtainable, are of the poorest quality, and complaints are received that they are useless after a few days.

Belfast Closing Hours.—The following arrangements came into operation in the Donegall Road and Sandy Row districts of Belfast on July 31: Mondays, Tuesdays, Thursdays, and Fridays, 6.30 p.m.; Wednesdays, as at present; Saturdays, 7 p.m. The pharmacies affected are: Donegall Road—D. Baxter; Boyd's; H. B. Hatrick; John McDowell. Sandy Row—D. Baird; J. B. E. Jamison.

Ulster Secretary in Dublin.—Mr. James McLenahan (secretary, Ulster Chemists' Association) visited Dublin recently, when he was the guest of the Irish Drug Association at a luncheon held at Jury's Hotel. Mr. Lyall Smith (president, I.D.A.) and other members of the committee were present, and there was a full interchange of views on problems affecting the drug trade in the North and South. Plans for mutual co-operation were discussed.

Eire Assistants' Salaries.—Over the nom-de-plume "Pestle" a letter headed "Chemists' Assistants" appeared recently in a Dublin morning newspaper, urging that chemists' assistants should be paid a salary in keeping with their position, "which is one of great importance to their employers as well as the general public." County or provincial assistants were urged to organise a national organisation to demand a minimum salary of £4 10s. (given as the fixed rate in Northern Ireland).

Eire Examination Results.—Sixteen candidates were successful in the July Assistants' examination held by the Pharmaceutical Society of Ireland: Louise Joan Butler, Patrick Joseph Foley, Nora Fox, Annie Hourihane, Annie Mary Sheelagh Johnson, Patrick McGee, Abina Julia Murphy, Joan O'Brien, Brendan O'Connor, Annie Margaret Teresa O'Rorke, John Daly O'Sullivan, Eileen Maura Raleigh, Michael Stanislaus Riordan, Nora Christina Roche, Teresa Sheehan, Margaretta Mary Smith. Forty-one students entered.

Nottingham Pharmacists' Refresher Course.—A refresher course for members of the Nottingham Branch of the Pharmaceutical Society will commence at University

College, Highfields, at 2.30 p.m. on Thursday September 28. Succeeding lectures will be on alternate Thursdays during the Autumn and Spring terms. The syllabus includes: **THEORY:** Dispensing of sulphonamide amidines and penicillin; sterilisation methods; new emulsifying agents; new ointment bases; immunological products; surgical dressings and catgut (seven lectures). **Chemotherapy:** of sulphonamide amidines and antibiotics; **hematology**; **endocrinology**, hormones and vitamins (six lectures). The evolution of pharmacology and a review of scientific discoveries (one lecture). **PRACTICAL:** Five or six practical periods on dispensing, with particular emphasis on sterilisation, ointment bases and emulsifying agents. The fees are: Whole course, £2 2s.; theory only, £1 1s.

Health in Scotland.—The summary report by the Department of Health for Scotland for the year ended June 30, 1944 (H.M. Stationery Office, price fourpence), states *inter alia*, that the health of the people has continued to be satisfactory. Although there is room for improvement, the rates for infant mortality, maternal mortality and still births are the lowest yet recorded. The rates for the first two groups are particularly gratifying. During the year the number of cases of infectious diseases has on the whole tended to fall. The black spot is tuberculosis, although the number of deaths from this cause was lower than in the previous year. Venereal diseases showed a small, but welcome improvement. Decrease in mortality from diphtheria has been very marked during the past two years; and analysis of the figures for immunised and non-immunised children justifies the conclusion that the improvement in mortality from diphtheria may be related to immunisation of the child population. Recently there has been a tendency for the proportion of Scottish children immunised against this disease to fall, as it is proposed to launch another campaign of national publicity to encourage immunisation. The report devotes a paragraph to the Scottish medicinal plants scheme, which it is stated that a total of seven tons of rose hips was gathered, compared with forty tons during the previous year. Valuable assistance in organising the local collections was again given by the Women's Voluntary Services and the Scottish Women's Rural Institutes. School authorities, pupils and youth organisations also played a large part. Foxglove leaves and seeds were collected to augment the national supply of digitalis.

TOPICAL REFLECTIONS

Post-war Overseas Trade

Replying to recent parliamentary questions on the prospects for export trade after the war (p. 133), the Secretary to the Department of Overseas Trade made statements to which no serious exception can be taken. It may be noted in passing that the style of phrasing adopted in memoranda prepared for ministerial use may lead to unexpected results. A case in point is found in the paragraph referred to: Mr. Harcourt (in stone (reading, no doubt, from a brief)) said that reports were being prepared with the co-operation of overseas traders dealing with (1) the general prospects for United Kingdom goods in particular markets; and (2) opportunities for particular export industries in all the more important markets. At first sight it would appear that exporters are to be entitled to general opportunities in particular markets or to particular opportunities in the more important markets, no third chance being possible. We are not likely to think that this was the intention of the announcement; it merely illustrates a danger inherent in departmental replies. Reporters, it may safely be concluded, are preparing for the day when the official col will be fired enabling them to enter field where not too many mines are left lying about. They will do the rest. When reading the other day the rectorial address of the late Lord Balfour (then Mr. A. J. Balfour) delivered at Glasgow University in November 1891, I was heartened by an authoritative expression of an appropriate to present conditions: "Great as are the recent changes which have taken place in Western civilisation, they have been almost entirely due to scientific discoveries, to industrial inventions, to commercial enterprise, to the occupation by Europeans of new Continents, the slow and in the main consequential modification of our beliefs, ideas and government conceptions. But to these great causes of movement the State . . . has contributed little but the external conditions under which individual effort has been able to operate unhindered. . . ."

Point in Nomenclature

There is a strange confusion in a passage quoted from the "Daily Telegraph" on p. 151. We read: "British pharmacy looks to Latin names where Americans are English. 'Ointments' are 'unguents'." This makes matters worse, the writer con-

tinues: "Britain goes by pints where America goes by pounds, and vice versa." Are we to suppose that "ointments" is Latin and "unguents" English? Or that British pints and American pounds are used without regard to any distinction between solids and liquids? The only point of practical interest in the quotation made is that it raises, by inference, the question of how far official and semi-official titles of medicaments on the opposite sides of the Atlantic can be assimilated. In your review of United States Pharmacopoeia XI (C. & D., 1935, II, 709) it was mentioned that "the new spelling of sulfate, sulfur, etc., conforming to modern usage, may seem strange at first, but . . . most of the changes seem logical, such as the adoption, finally, by the U.S.P. of the universally used 'saccharin.' . . ." It may be hoped that when further approximations of strength in preparations of the British and American Pharmacopœias are being effected, differences in nomenclature will be smoothed out to the greatest extent practicable. After all, these differences are in many cases trivial: we need not be excessively shocked, for instance, if our American friends write "Castille" for "Castile."

Bay Leaves and Berries

The note on bay leaves on p. 156 will awake memories in some of your older readers. The leaves were occasionally asked for by Victorian customers for use in cookery; and in the eighteenth century, official lists of simples included the leaves and berries of *Laurus nobilis*. Looking casually through an old "Beasley," I notice that Dr. Landerer's application for baldness contained 2 oz. of bay leaves digested, with $\frac{1}{2}$ oz. of cloves, in 8 oz. of perfumed spirit, and completed with $\frac{1}{2}$ oz. of ether. (Some student may be able to identify the learned doctor.) Expressed oil of bay, a troublesome substance in hot weather, was an ingredient in various veterinary recipes. An ointment for mange and lice in the book referred to has it as the basis for strong mercurial ointment, oil of turpentine, and soft soap; the directions for use are followed by the cautionary remark: "It is not quite safe." Another ointment, in this case for farcy buds, contains mercuric chloride, white arsenic, and yellow arsenic, all in high percentages, incorporated in this oil. With or without the curious synonym "Topique Terrat," it was a dangerous medicament to leave about.

X-rayser

LEGAL REPORTS

Posed as Doctor.—At Birmingham, on August 1, Norman Warren, a native of Southend-on-Sea, was fined £45 on a charge of pretending to be a licentiate of medicine and surgery and of procuring morphine while unauthorised. It was stated that Warren, claiming to be a house surgeon at Bristol General Hospital, was appointed resident house surgeon at Queen Elizabeth's Hospital, Birmingham. It was found that his name did not appear on the records of the Royal College of Surgeons and the appointment was terminated. A police officer gave evidence that Warren had held positions with firms of motor engineers for six years after leaving school at fourteen; he later worked as a dispenser, and commenced medical studies at King's College, London, but failed to submit himself for the first part of his M.B. examinations. Since then he had held unqualified positions at various hospitals; at Cheltenham he had attended at six operations for appendicitis (two he did himself and in the others he assisted a qualified man).

Purchase-tax Conviction.—At Blackburn, on July 25, William Clint and Richard Ludwig Brunt, Blackburn, were each fined a total of £90, with £15 15s. costs, for recklessly making false statements in respect of purchase tax on hair grips sold by them. For the Customs and Excise authorities, who prosecuted, it was stated that defendants were in partnership under the title of Ladygrips. They commenced in March 1943, and the offences were in respect of the period to October in that year. The three omissions were of 18s. 1d., £82 18s. 6d., and £220 14s. 4d. The firm employed a number of women at premises in Blackburn to make the grips. The total number of hair grips on which it was alleged defendants had evaded tax was 2,361 gross. For Clint it was stated that the partnership had been short and not altogether happy, and the firm had written to the authorities, giving a full account of its transactions and also explaining how the breaches came to occur. All the money due in respect of purchase tax had been paid and the books had been surrendered.

Chemist in Conspiracy Charge.—At Glamorgan Assizes, Swansea, on July 25, Arthur Steward Lloyd, M.P.S., Pennygraig, was charged, in company with Major George Richard King (Recruiting Officer at Cardiff) with conspiring to do acts likely to mislead the Commanding Officer and other officers of H.M. ships. Both defendants pleaded not

guilty. Lloyd also pleaded not guilty to seven charges of doing an act likely to mislead a Commanding Officer, and pleaded not guilty to seven charges of aiding and abetting. For the prosecution it was stated that Lloyd had a number of ships including one at Bridgend, at which he was employed, as assistant, Roland Lewis Jones, M.P.S. The charges concerned the return of Roland Jones in civilian life after he had been due for enlistment in the Navy. It was alleged that Lloyd deliberately deceived and misled the authorities into thinking Jones was too ill to report for duty and ill to travel, although he was at all times perfectly fit and well. Another man who was unfit was alleged to have been passed off as Jones, and medical certificates were produced purporting to represent Jones as unfit. The jury, after a short retirement, found both men guilty on all charges. Lloyd was sent to prison for twelve months, £500, and ordered to pay £250 towards the cost of the prosecution. He was given a month in which to pay the fine and costs.

"Real Black-market Show."—Impounded fines totalling £55 and costs recently paid by Percy John Dunford, 262 Anlaby Road, Hull, the stipendiary magistrate at said, "This is a real thorough-going black-market show." Dunford pleaded guilty to six summonses for unlawfully supplying controlled goods (perfumes) contrary to the Toilet Preparations Order. The prosecution stated that during the four months September to December 1943, Dunford had sold perfumes of his own manufacture to the value of £498, not including a considerable amount of trade which the Board of Trade were unable to trace conclusively. Dunford admitted having bought 692 dozen perfume bottles and also a perfume essence which he mixed with water, "obtaining a powdery effect." He made declarations to customers throughout the North of England that his company was registered as a manufacturer, and his invoices were headed "Percy Jay, Ltd." with an address in Riversdale Road. Dunford explained that "Ltd." on the invoice was a misnomer and he normally stuck a gummed label over it, but on each of the eleven invoices the prosecution had managed to get off, the "Ltd." had not been covered. The address in Riversdale Road was fictitious. In a long explanation he said he did not know he was breaking the law; he earned £20 to £30 per week, but most of it was overhead expenses.

COMPANY NEWS

GREK, LTD. (P.C.)—Capital £100. Manufacturers and dealers in photographic films, manufacturers of and dealers in chemicals, Directors not named. Solicitors: F. G. Butler & Co., London, E.C.

WADLEY MARSHALL, LTD. (P.C.)—Capital £1,000. Manufacturers of and dealers in ophthalmic articles, apparatus and accessories, surgical, medical and photographic equipment, etc. Directors to be inted. R.O.: Clifford's Inn, Fleet Street, London, E.C.4.

S. & D. GOODALL, LTD. (P.C.)—Capital £100. Chemists, druggists, etc. Sydney Hall, M.P.S., and Mrs. Doris Goodall, Directors. R.O.: 94 Burley Road, Leeds, 3.

GOODALL (BRADFORD), LTD. (P.C.)—Capital £500. Objects and other particulars similar to those in S. & D. Goodall, Ltd. (same).

CIL HARRISON, LTD. (P.C.)—Capital £100. Wholesale, retail, pharmaceutical general chemists, etc. Cecil Harrison and John Strange, directors. R.O.: 11 George Street, Stockport.

J. BUSH & CO., LTD.—Net profit for 1943 amounted to £128,887, compared with £133,799 in the previous year. Final ordinary dividend, 6 per cent., making 8 per cent. for the year (same).

LAND BANK, LTD.—Directors announce an interim dividend for the half-year to June 30 of 8 per cent. actual, less income tax, payable July 15. The same dividend was declared a year ago.

PARLIAMENTARY NEWS

Penicillin for Civilian Use.—In a written answer to Mr. Linstead, on August 3, the Minister of Health stated that the production of penicillin was increasing to such an extent that it would shortly be possible to have some penicillin available for civilian use. It was expected that sometime in 1945 supplies would be sufficient to meet all requirements, but during the transition period it was essential to restrict the use of penicillin to cases in which it was likely to save life or to be the only means available for effecting recovery from grave illness. In this object in view, it had been arranged to issue the available supplies to university medical schools for use in their teaching hospitals and in other hospitals controlled by them in their areas. For the time being the issue would be made free of

charge. The conditions in which it was to be used would be indicated in an official memorandum, and suitable cases would be admitted to the hospitals concerned. It would not be possible at present to make penicillin available to private practitioners. The Minister was advised that the preparation of penicillin required the highest possible technical control in order to prevent the marketing of inferior and possibly dangerous preparations. For the present, all supplies were obtained from the Ministry of Supply, which, through a staff of competent inspectors, satisfied itself about the quality of the penicillin. Regulations had also been prepared for prohibiting the manufacture of penicillin for sale except in accordance with a licence issued under the Therapeutic Substances Act and in conformity with prescribed conditions, including tests for strength, quality and purity.

TRADE NOTES

The Correct Title.—Stannard Distributing Agencies, Tadworth, Surrey, point out that the correct style of the firm is as given and not as stated in a trade note in these columns recently.

Chemists-only Denture Fixative.—Thos. Christy & Co., Ltd., Farnham, Surrey, remind chemists that their speciality, Perde-co denture fixative, is not available in departmental and fixed-price stores, its distribution being confined to chemists.

Business Changes

THE offices of the Pharmaceutical Society of Ireland will be closed during the remainder of August.

RELIANCE TRADING CO. have acquired new temporary offices and showrooms at 13 New College Parade, Finchley Road, London, N.W.3.

MR. B. B. J. COOPER, M.P.S., took over the business of T. Burden & Co., 41 Store Street, Bedford Square, London, W.C.1, on July 24.

LENNON, LTD., announce that their temporary office address is 73-76 King William Street, London, E.C.4. Their warehouse (for delivery of goods only) is at Buxton House, 12 Little Trinity Lane, London, E.C.4.

MR. ROBERT BRUCE HEGGIE, M.P.S., son of the late Mr. John Heggie, M.P.S., has taken over, with Mrs. Janet Heggie, widow of the latter, the pharmacy at 86 Main Street, West Kilbride; it will continue to operate under the style of "John Heggie."

PERSONALITIES

MR. W. SPENCER HOWELLS, immediate past-president of the Pharmaceutical Society, has been presented with a replica of the badge worn by him during his term of office. In handing over the replica, Mr. F. G. Wells (president of the Society) said Mr. Howells had won not only the confidence of his colleagues, but also their affection.

MR. E. C. HASKINS, M.P.S., Bath, contributed a letter to the "Bath Chronicle," on August 1, in which he countered the innuendo by a member of the Insurance Committee, "Now that chemists have obtained all they asked for it is necessary the Insurance Committee should see that shops are open in conformity with their rota," with a declaration that pharmacists would honorably discharge their duty in this respect as they had always done in other directions.

ALDERMAN LEWIS CHAMBERS, M.P.S., 31 West View, Hopwood Lane, Halifax, who has been in business in the town since 1911, has been selected as the next mayor of Halifax. He served his apprenticeship with the late Mr. Jabez Swire, King Cross, Halifax, and qualified from the Leeds College of Pharmacy in 1909. Alderman Chambers has been actively connected with local pharmaceutical affairs, being chairman of the Halifax Branch, National Pharmaceutical Union, and a former chairman of the Pharmaceutical Society branch. He has also represented his profession on the Halifax Insurance Committee. The mayor-elect, who is sixty-five, has given long service to the St. John Ambulance Brigade. He has been on Halifax Town Council since 1927, and for some time chairman of the Health Committee. Both he and his wife (a Justice of the Peace) are staunch workers at Wesley Church and are prominent in many other spheres of public life.

MARRIAGES

WOULFE—COAKLEY.—At Cork, recently, David Woulfe, M.P.S.I., Lansdowne Road, Dublin, to Dr. Margaret M. Coakley.

O'SULLIVAN-FOLEY.—At St. Kevin's Chapel Pro-cathedral, Marlborough Street, Dublin, on June 14, Captain Dermot O'Sullivan, Kildare, to Sheila Foley, third daughter of Mr. M. J. Foley, M.P.S.I., the Medical Hall, Parnell Street, Dublin, and a sister of Messrs. J. T. Foley, L.P.S.I., and C. H. Foley, L.P.S.I.

DEATHS

CONSTABLE.—At Sherborne, on July 1, in a flying accident, Lieutenant Constable, D.Sc., R.N., a son of Mr. Constable, M.P.S., Uckfield, Sussex.

DEERY.—At his residence, Main Street, Newtownstewart, co. Tyrone, on July 1, Mr. John Deery, M.P.S.I. The funeral place in Newtownstewart Churchyard, July 24.

EDWARDS.—On July 16, Mr. Henry Edwards, M.P.S., aged sixty-five. Edwards' address in the Register was Edmund Road, Hastings.

HUGHSON.—On June 30, Mr. Alexander Sinclair Hughson, M.P.S., 4 Brough Road, South Shields. Mr. Hughson qualified in 1893.

MARSDEN.—On July 2, Mr. John Marsden, M.P.S., 21 Wheathouse Terrace, Kirkby, Huddersfield. Mr. Marsden qualified in 1899.

RAE.—At Poona, India, on June 26, Staff-Sergeant Gilbert Aird Rae, M.R.A.M.C., aged twenty-nine. A native of Hurlford, Ayrshire, Staff-Sergeant served his apprenticeship with Mr. Barrie, King Street, Kilmarnock, remaining at the premises when the business was acquired by Boots, Ltd. He qualified in 1940 and served for some time in the Carlisle establishment of Messrs. F. & G. He enlisted two years ago, and had been in India since February 1943.

SIDEBOTTOM.—On July 26, Mr. John Sidebottom, M.P.S., 8 St. Luke's Lane, Blackpool, aged seventy-three. Mr. Sidebottom was formerly in business in Clitheroe and Accrington, Lancs.

WILLS

MR. STANLEY RAMPLING, 19 Barton Place, Cambridge, surgical appliance maker, £28,433, with net personalty £16,584.

MR. WILLIAM BLACK RANKIN, J. Coates Terrace, Edinburgh (chairman of British Chemical Co., Ltd.), left personalty in Great Britain valued at £906.

PROFESSOR JOHN WILLIAM HENRY F. M.D., F.R.S.E., The New House, Hatch, Sevenoaks, Kent, and 51 Porchester Place, London, W.1, consulting bacteriologist to Guy's Hospital and Emeritus Professor of Bacteriology, University of London, left £13,534, with net personalty £10,499.

ARMACEUTICAL SOCIETY OF GREAT BRITAIN

monthly meeting of the Council of the Pharmaceutical Society was held in London on August 1 and 2, the president (Mr. F. G. H. in the chair. THE PRESIDENT reported the death of Dr. J. H. Macpherson, a member of the board of examiners for Scotland.

Tuesday's Session

ong the items of business transacted in the session held on Tuesday were the following: The amendment to the by-laws relating to an increase in fees was read a first time. Letters were received from the resident secretary in Scotland stating that Mr. John Anderson had been elected chairman and Mr. Alexander Murray Vice-chairman of the executive of the North British Branch for the year, and conveying the names of members nominated by the executive of the North British Branch to act as divisional secretaries for Scotland for 1945; the nominees were appointed. A member wrote about holding a special meeting to discuss the procedure at all meetings; the secretary was invited to inform the member of the chairman's views on the subject. The Oxford branch of the Society conveyed suggestions relating to limit the number of candidates until elections; the suggestions were referred to the Organisation Committee. The joint Consultative Committee of three Unions conveyed a memorandum on national pharmaceutical service (see *D*, August 5, p. 139). Nottingham branch of the National Pharmaceutical Society conveyed a resolution stating that steps should be made to secure the unity of sections of pharmacy in negotiations with the Government under the new national health service.

Wednesday's Proceedings

SECRETARY reported that, since the previous meeting of Council, thirty-seven persons had been registered as students. It was recommended that the names of seven persons removed during the previous year from the registers of chemists and druggists, and/or pharmaceutical chemists, should be restored. This was agreed. The amendment was also adopted to add to the registers the names of 283 persons and the addresses of 153 sets of premises removed during the current year. A proposal was given for the registration of Dr. Engel, Czechoslovakia, under Regulation 32 (c) of the Defence (General) Regulations, 1939.

Education Committee

MR. G. R. KNOX MAWER, moving the minutes of the Education Committee, reported that the Committee had considered resolutions from the British Pharmaceutical Students' Association and decided to invite three representatives of the Association to meet the chairman, together with the Society's president and Mr. Meldrum, for informal discussion of the points raised. The Committee was anxious to encourage the students in their good work. He also reported that at an early date representatives of Leeds University would be meeting the chairman and secretary on the question of a degree in pharmacy, and that Mr. Berry and Dr. Linnell had been invited to be present at the meeting. It was reported that, as a result of the scholarship examination, 1944, the Jacob Bell Memorial scholarship had been awarded to J. E. Pascoe, Plymouth; Leverhulme scholarships to D. C. E. Raven, Exmouth; B. K. Martin, Saltash; and Joyce Moon, Gateshead; and the Devon and Cornwall exhibition to L. W. Parsons. It is understood that the Council of Nottingham University College has accepted a recommendation to award the College studentship in pharmacy to A. N. Davison, Leigh-on-Sea.

Approval was given to a manufacturing laboratory to receive apprentices, subject to at least six months of the pupilage, at the discretion of the chairman, being served in a retail pharmacy specially approved for the purpose. A member suggested that if, in addition to six months in a retail business, they could arrange for a pupil to serve in a hospital, he would then get an all-round training in pharmacy. Another member thought that twelve months should be served in a retail pharmacy.

MR. H. M. HIRST said that they should arrange an exchange of apprentices between the wholesale and retail.

MR. MAWER, replying to the discussion, said that the Committee had finally decided that a six-months' period was all that would be necessary in a retail pharmacy, as the students would get a very good training in a wide field, but the Committee would bear in mind the remarks that had been made.

Benevolent Fund

MRS. J. K. IRVINE, moving adoption of the minutes of the Benevolent Fund Committee, said it had been agreed that members of the Council who received cheques

for the Fund should either forward them to the office in the ordinary way, or hand them to the chairman of the Committee, instead of making a presentation at the Council meeting. The chairman would then use his discretion in drawing attention to contributions when presenting the Committee's minutes. This recommendation was accepted, and the Council also agreed that it should apply to contributions to the War Aid Fund. Mrs. Irvine reported that in celebration of the centenary of his business at 42-44 High Street, Cosham, Portsmouth, which had had only two owners during that time, Mr. C. H. Baker was making a gift of £105 to the Benevolent Fund, to be paid under deed of covenant, so that eventually the Fund would benefit to the extent of £210. The secretary was instructed to express the Council's appreciation of the gift.

Other Committees' Reports

MR. A. R. MELHUISH, submitting the minutes of the Joint School Committee, said a recommendation had been made that the Greenish Memorial scholarship for 1944-45 should be awarded to W. W. Binns.

MR. F. C. WILSON, giving the minutes of the Organisation Committee, said that in view of the indefinite postponement of the Branch Representatives' meeting, it

was considered whether any alter arrangements for achieving the same could be made. It was felt that no scheme was practicable, but it was that before long it would be possible to hold the postponed meeting, and it agreed that, in the meantime, to provide opportunities for discussion of White Paper, branches to be addressed in the near future by the president and secretary should be asked to invite to meetings members of adjacent branches.

MR. W. DEACON, submitting the minutes of the War Aid Committee, said the committee wanted members of the Council to use their influence to persuade Pharmaceutical Committees still outside the Society to come in. THE PRESIDENT said that members of the Council would do what would help the Fund considerably and it a settled income.

MR. DEACON recalled that the Council had agreed to send books and lectures to prisoners of war, and they had received news that one prisoner of war had passed his London B.Sc. (special chemistry) in captivity.

THE SECRETARY reported that an application to the Council had been received from Mr. G. R. Hill as a member and the man of the Statutory Committee for a further period of five years from July

NORTH BRITISH EXECUTIVE

A MEETING of the executive of the North British Branch of the Pharmaceutical Society was held in Edinburgh on July 19, Mr. John Anderson in the chair. THE CHAIRMAN referred with regret to the passing of Dr. John H. Macpherson (a member of the board of examiners for Scotland), and the resident secretary and Mr. Beattie both associated themselves with what the chairman had said.

New Members

THE CHAIRMAN reiterated members' appreciation of the services rendered by the four members of executive who had retired and the three who had been outvoted. On behalf of the executive, he cordially welcomed the new members. The welcome was duly acknowledged.

Officers and Committees

Mr. John Anderson, Dundee, was unanimously elected *Chairman*, and Mr. Alexander Murray, Glasgow, *Vice-chairman*. MR. MELDRUM suggested that the personnel of the various Committees should

be smaller and, after discussion, it was agreed that the General Purposes, Education, and Parliamentary Committees should each have a membership of seven, with a quorum of three. The Nominating and Examiners Committee was small, and it was agreed that it would be no quorum, as circumstances might arise in which an examiner might need to be appointed before a quorum could be called together. The Committee of Inquiry being a special committee was agreed to leave it as originally constituted, and to co-opt the new chairman.

It was agreed that the Committee on Health Services was no longer needed and had been superseded by the Scottish Committee on Health Service.

THE RESIDENT SECRETARY reported a letter which had been sent to the Advisory Council on Education had been acknowledged. A letter had been sent to the Inter-departmental Committee on Further Training and Education, enclosing a copy of the memorandum prepared by the Pharmaceutical Society on behalf of

al Pharmaceutical War Committee gland, and stating that the memo- m had been agreed to by the North n executive and Scottish Pharma- al War Committee. A report had eceived from the Academic Board on le "refresher" courses.

RESIDENT SECRETARY reported e had had a talk with Mr. Hay about ter's proposal for a Rutherford Hill rial plaque; it was agreed that the r should be brought up again at the meeting.

list of divisional secretaries, for appointment by the Council for 1945, was ed. The following were alterations the previous year's list:—

City of Berwick: D. B. Johnstone, 34 t Place, Duns; County of Dumbarton, unction District of Burghs: W. S. Guthrie, Glasgow Road, Clydebank; County of , Broughty Ferry District: C. S. Jolly, 87 Street, Broughty Ferry; County of the f Glasgow, St. Rollox District: G. Adam,

174 Castle Street, Glasgow; Galloway, Kirkcud- brightshire: F. J. Walker, 79 King Street, Castle Douglas; County of Lanark, Hamilton Division: W. B. Munro, 38 Cadzow Street, Hamilton; Counties of Ross and Cromarty: Alexander Barnie, Spa Pharmacy, Strathpeffer.

Scottish Central War Committee

MR. MCADAM asked if the Scottish Central Pharmaceutical War Committee had had any negotiations with the Central Price Regulation Committee on the issue of licences to sell made-up medicines to all sorts of traders. MR. BENNETT said such matters did not come within the functions of the War Committee. The position was, however, serious, and he hoped the White Paper would be the solution. He was afraid the difficulty of fighting huge capitalistic firms which had vested interests was too strong for pharmacists at present, but there was no reason why they should not put in a protest against the too-free issue of licences.

CANADIAN NOTES

es Tax Exemptions.—The Quebec ncial government has abolished the cent. sales tax on a number of articles, lling soap and cleaning products, and rinks selling at under ten cents each. nillin for Civilians.—Mr. Howe (Min- of Munitions in the Canadian Govern-) stated in the House of Commons, wa, recently, that penicillin would be able for non-military use in the nion within six months.

anadian Army's "Drug Store."—Cen- Medical Stores, Ottawa, is the largest g stôre" in the Dominion of Canada, oing five large buildings in Ottawa. n this dépôt the men and women of da's three services, wherever they may be provided with all types of medical lies. Operated by men of the Canadian y Medical Corps, the Central Medical eships an average of approximately 0,000 lb. of medical supplies a month.

ll to Amend Quebec Pharmacy Act.— Public Bills Committee of the Quebec s legislative Assembly recently adopted a sponsored to amend the Quebec macy Act. The main purpose of the ure was to change the name of the maceutical Association into "The e of Pharmacists of the Province Quebec." The committee decided to ease the number of members of the ciation from twelve to sixteen (Mon- ten; Quebec, six).

Toilet Goods Ban Lifted.—The War-time Prices and Trade Board (of Canada) has issued an Order revoking the previous restrictions on the production, packing, distribution and sale of cosmetics and toilet goods. The new Order permits manufacturers to resume production of goods in sizes and kinds prohibited under the previous Order. Where no price "ceiling" exists the manufacturers must submit for approval the prices of goods in any size or kind manufactured as a result of the lifting of the ban.

COMING EVENTS

Sunday, August 13

MANCHESTER PHARMACEUTICAL ASSOCIATION. Ramble. Meet London Road Station, 10 a.m. Book Buxton return. Inquiries to W. Edwards, Old Trafford.

C. & D. QUIZ NO. 34

1. What is chandana?
2. What is lotio crinalis stimulans?
3. What are mercuric nitrate drops?
4. What is gum plant?
5. What is oil of Dutch chemists?
6. What is chittem bark?
7. What is sodium gynocardate?
8. Who discovered phenazone?
9. What are glandulæ Rottleræ?
10. What is spiritus capillaris?

(Answers on p. 179)

LAST WINTER'S ILLNESSES

THE Medical Statistician to the General Register Office and Ministry of Health recently issued preliminary reports on illnesses and injuries to the civilian population of Great Britain, both urban and rural, during the months October to December 1943 and January and February 1944.

Classification	Oct.	Nov.	Dec.	Jan.	Feb.
Serious	1.7	1.95	2.0	1.9	2.0
Moderate or mild	7.8	11.75	15.2	13.85	15.0
Minor	12.6	17.2	24.6	22.9	26.0
Symptoms ill-defined	3.4	3.6	3.7	4.5	5.0
Influenza (included above)	1.5	6.7	10.8	5.1	2.0
Colds (included above)	4.9	9.0	14.6	13.2	15.0
Fatal	0.045	0.064	0.096	0.065	0.0
Injury incapacitating for:					
(a) One week or more	0.4	0.6	0.7	0.8	1.0
(b) Under one week	0.4	0.5	0.6	0.7	0.0

The method of sampling was to choose the localities to be visited (distributed in proper proportions as to region, rural or urban, and size of town), assign to each the required quota according to the estimated population, and select that number of persons aged 16-65 at random from the local food register. These persons were interviewed by field workers of the Wartime Social Survey in early January, February, and March, and asked to give details of their illnesses during the preceding three months.

Classification

The frequencies given in the table above represent average percentages for each month, and are given under the headings suggested in the Medical Research Council's Provisional Classification of Illness and Injuries. Under this, the definitions of the categories are as follows:—

SERIOUS.—Usually producing total incapacity to work for four weeks or more, or involving the risk of death (immediate or delayed).

MODERATE OR MILD.—Usually producing total incapacity to work for three days or more, but not serious as defined above.

MINOR.—Ailments of definite diagnosis which usually do not incapacitate from work for as long as three days at a time.

SYMPOTMS ILL-DEFINED.—Ailments without definite diagnosis.

Diseases of very variable effect on capacity for work were left in an indeterminate group, and for these the number of

days of incapacity which actually occurred were used to fix the category. It was necessary to place influenza in this since "flu" was often recorded when there was no absence from work. Consequently influenza contributed largely to both moderate or mild and to the minor

categories. Colds, unless described as fits, were classed as minor illnesses. A method of analysis was established which will, with future samples, be carried out at the General Register Office. It is stated that complete analytical details will be published at a later date.

Twenty-seven per cent. of the persons interviewed recorded no attack of any minor ailment, or symptom during the period December-February, against 33 per cent. in October-December.

Control of Cross Infections.—A memorandum on the control of cross infection in hospitals has been issued by H.M. Stationery Office (pp. 34, price sixpence). "Cross infection" is meant any infection acquired in the hospital environment. The most prevalent type is respiratory, which accounts for much of the sickness and death of the deaths among infants in hospitals. Gastro-enteritis is also responsible for high morbidity and fatality rate (reaching sometimes to 70 per cent.). Given good ventilation and bed spacing, control of cross infection may be improved by adequate isolation accommodation, adequate sterilisation and disinfection equipment and a sufficient trained staff.

More Wanted.—The Minister of Supply stated on August 2 that 675,000 tons of paper salvage had been collected during the past twelve months. The bulk of the salvage is repulped, providing a valuable source of a vital raw material.

MY CAREER IN PHARMACY

by Frederic William Gamble, Ph.C.

M the third of a family of sixteen children. My father was William Gamble, farmer and stock-breeder in ge way at North Runcorn, King's Norfolk. As a boy I had no special ection for pharmacy but, learning the Pharmaceutical Society was an examination in Norwich for "Preliminary," and passed at age of fourteen.

(In the earlyies I studied hard the London Matrion, but never

A friend of my r, seeing my name e list of passes shed in the local , suggested that ght as well go on become a chemist. t result, I was apprenticeship to late Herbert n, Russell Gar- Kensington. It interest your rs to know that ather paid a pre- a of £40 for a d of four years, rs, but with no ry or pocket ey; perhaps he lucky, as some fathers paid as much £100 for their sons under similar tions!

for Learning

y apprentice-master was a good phar- st, and the business offered me ample e for learning my job. There was y of dispensing, and we made prac- y every galenical we required. Disp- in those days was quite different what it is today. Perhaps the main ence was that nearly every script ded pills to special formulas, and they to be made up *de novo*. We made all by hand, and I have vivid memories aking as many as 2,000 pil. antibil. and hei co. weekly, mixing the ingredients massing in a bell-metal mortar. All varnished. There were no such ameni-

ties in business then as telephones and typewriters. The hours also were long. From the first I kept my qualifying examination well in mind. I read and re-read "Squire" and "Martindale," and I fixed up a small chemical laboratory in the shop and worked in it after closing time. Several times I was successful in the C. & D. competition for chemical analysis, which was very popular then. I stayed two years after my apprenticeship ended, and I remember Mr. Dixon presented me with a copy of Attfield's "Chemistry" and a microscope, to mark the event. I was followed by John Evans who, like myself, became in after years an examiner of the Pharmaceutical Society. He is now public analyst for the West Riding of Yorkshire.

Preparing for the "Minor"

My next job was at Shirleys, Westbourne Grove—another good dispensing business,

then owned and managed by J. B. Portway. Here I gained more experience in making difficult pills. I remember that I started a method of pearl-coating by hand. I devoted all the time I could spare to study, and attended evening lectures at a school in Charlotte Street. On leaving Shirleys, the question of a suitable school at which I could be trained for the "Minor" became a pressing one, and I had to ask my father for help in meeting the fees. Several prospectuses were sent to him, and after a careful examination of their claims he decided on Muter's. I strongly suspect that monetary considerations influenced him in making the decision, although it was a very good school, as many pharmacists will recall. I particularly remember Armstrong, the chemistry tutor, and, of course, the doctor himself. I spent the minimum time



Mr. F. W. Gamble, Ph.C., until recently vice-chairman and managing director of Allen & Hanburys, Ltd., London

in preparing for the "Minor," which I passed after taking all the school prizes for the session. The "Major" duly followed, and I was successful in obtaining the bronze medal of the Pharmaceutical Society. I should add that in my student days I did a good deal of work in coaching backward students, and also in lecturing on botany, which was one of my favourite subjects.

Qualified but Impecunious

I now had my qualifications but practically all my funds were exhausted. I had to get back to work quickly, and found a post with C. J. Miles, Edgware Road. The pay was good but the work was hard and very monotonous; I recall a favourite imposition of my employer, which was to get us to pack Seidlitz powders for a whole week! During the time I was at Miles', and indeed for some time before that, I had been actively engaged in helping to revive the old London Chemists' Assistants' Association, which had become moribund. G. E. Pearson, afterwards general manager to Burroughs Wellcome & Co., became the financial secretary, and I was the literary secretary. The function of the Association was both educational and social. Lectures were arranged, and there were frequent opportunities for social gatherings, usually dances. There must be still some pharmacists who recall the Association's work, and who realise that it provided very necessary relaxation for assistants and managers, particularly for those who were in lodgings or whose living-in amenities were somewhat colourless.

A Start with A. & H.

Leaving Miles', I applied for a post with Allen & Hanburys at their retail establishment at Plough Court and, thinking that I would have two strings to my bow, I made application to Burroughs Wellcome & Co. at the same time! After interviews with the representatives of both firms, in which my testimonials and record generally made a favourable impression, I was offered a post by each. I accepted that at Plough Court because, to the best of my recollection, the salary offered was 10s. a month more than that offered by B. W. & Co. I entered Plough Court as junior, but in a year's time I was transferred to the West End establishment as senior assistant. The year 1900 was a red-letter one for me, as, on January 1, I was appointed manager at Vere Street, and on the increased salary I was then paid I was able to marry the

lady to whom I had been engaged several years—like me, a native of Eastern counties, and my continual and companion ever since. Mrs. G. is well known to pharmacists as a visitor to meetings of the British Pharmaceutical Conference for many years and also other social functions; she has been deputy during my illness in business matters. Of my experience at Vere Street I could write a lot, but space for Forty-four years ago the old order of pharmacy was passing. Quite early in my career there I introduced a department of filling ampoules for hypodermic medicals, then just coming into vogue. At the suggestion of Sir Victor Horsley, we prepared a solution of the thyroid for oral administration; it was similar to liq. thyro. B.P., 1898, and was the only glandular preparation which retained its action when taken orally. My introductory manufacturing on a big scale came through the suggestion of Dr. J. A. Shaw-Mack that we should make a trypsin solution for the treatment of cancer. Although I was not hopeful of the success of it, I carried out the doctor's orders, a boom in the preparation followed, not only in this country but in European and American countries as well. Many other new products were initiated through the suggestion of specialists followed, two of them being soaps, milk and liquid paraffin, the latter soaps being sold by Arbuthnot Lane.

Codex and Conference

It was also about the year 1900 that the work for the British Pharmaceutical Conference began. Michael Carteighe, then president of the Pharmaceutical Society, suggested it; the prime movers in carrying it into effect were Edmund White and J. Humphrey (editor of the "Pharmaceutical Journal"). It was in his room at 9, Russell Street that the first meetings were held. I well remember that, at about 9 p.m., refreshments appeared in the form of ham sandwiches, cheese sandwiches and beer. Later, when we were meeting at 1, Bloomsbury Square, we adjourned to the Holborn Restaurant for an evening after the work was finished. Dr. White was chairman at these gatherings and I was in the vice-chair. A bottle of brandy always graced the board! There was some difficulty at first in getting various members of the committee into their stride. Meetings were held weekly and it was essential that material for discussion and for the printer should

ced in an even flow; my own part-share, under Professor W. E. Dixon, that of "Action and Uses." This ed hours of work in the evenings, to a late hour after I had returned from Vere Street. My wife stills me how she used to implore me to bed, at 2 a.m., and I used to that I must first finish the monograph engaged upon. My work on the went on right up to the publication first edition in 1907, and subseq. I spent much time on the second of 1911. I recall that, when the t of vitamins came up at these ings, I was always asked to give what nation I had on them. Edmund White ever a sceptic regarding their reality ses.

er the Armistice of 1918 I was appd, on the suggestion of Sir William Jones, a member of one of the nument Advisory Committees, to pro to the front to interview and advise s in regard to their future careers. attached to Headquarters, Fourth and stationed at Namur for a month, st few days being spent in hospital cover from an attack of influenza, aging in Europe.

of the features of my pharmaceutical which I have specially enjoyed has been nual meetings of the British Pharma- al Conference, which I have attended reat number of years. I was president International Conference, which was orthy because it was the Conference's nd Jubilee, and was also the first under the ægis of the Pharmaceutical y.

behalf of my company I have travelled ny parts of the Dominions. In 1921 t to Canada with the Society of Chem- industry under Sir William Pope. This turing the prohibition period, and I emember, at a banquet to the Associa- held in New York, that each guest ed, at the side of his plate, a 1½-oz. f whisky labelled "The draught to be diluted with water." During this I met Dr. Sperry, inventor of the cope which has made possible the bomb. I also met Dr. Baekeland, the tor of Bakelite, just then coming into ction and use. In 1925 my wife and my eldest son, left this country on a to the branches of Allen & Hanburys, in the Dominions. We set out for la in June, crossed the N. American

Continent by the Lake route, and took ship at Vancouver for Japan and China. After a month in Shanghai, we travelled to Hongkong and sailed for Australia via the Phillipines and British North Borneo, and down the West Coast of Australia within the Barrier Reef to Sydney. We lived for two months between Sydney and Melbourne, frequently meeting the late Mr. Butchers, who gave me valuable introductions and suggested that I should become an honorary member of the Pharmaceutical Society of Victoria. From Sydney we continued to Adelaide, and from there to Durban, South Africa—a three weeks' journey. The company's headquarters were at Durban, and we also visited Johannesburg and Pretoria. We returned by train to Cape Town, where we took ship for Southampton. We had travelled round the world with the sun and were completely exhausted with the heat. Off Ushant, France, we met a fog which we thought was glorious—the only spot of moisture we had known for eight months! I have visited South Africa since, in the South African spring, and the flowers are magnificent. I have also visited Canada since, on many occasions. (My second son, in fact, has become a farmer there. My youngest son is a Major serving in India.) Wherever I went I was received and welcomed as an examiner. Examinees came to see me, and from remarks that I heard I gather I was regarded as stern, but just! During my time with A. & H., we have been bombed out in each war. In 1918 the offices of the old factory at Bethnal Green were destroyed in the final air-raid of the war on London. In September 1940 a great part of the factory shared a similar fate.

Hobbies

My lifelong hobby has been gardening. I learned to play golf late in life, and was never a good player, although during the years between the wars, Mr. Bowman (Goodall, Backhouse & Co.) presented a valuable cup to the Drug Club for competition, and Wright, Layman & Umney, Ltd., presented a replica which I won on two occasions. Playing once with C. A. Hill on Pinner Hill, I holed-out in one! I hope this brief account of a long life of activity will convey my feeling that high ideals, accompanied by hard work, can still carve out a career in pharmacy.

[*Their friends in pharmacy will join with us in wishing Mr. and Mrs. Gamble years of good health and contentment in their retirement.—EDITOR.*]



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act that goods made of raw materials or supply owing to war conditions are used in this paper or described in its editorial columns should not be taken as an indication that they are necessarily available for export.

Scientific and Industrial Research—III

CLUDING the discussion of the Nuffield Report "Statement on Problems of Scientific and Industrial Research" begun in our issue of July 29 and continued in that of August 5, we may consider the cost of financing scientific research for industry. The estimate in the report is that from 4,000 to 5,000 workers and "technicians" would be required, involving an annual expenditure of about £4 millions, apart from capital outlay; an additional £2 to £3 millions will be needed for certain developments. The general question of financial policy is based on sound lines. It is pointed out that "it gets us little further merely to increase the sums spent on such research, either in total or in relation to population, than one hand in Great Britain and on the other in the United States or the Soviet Union, and then to demand an immediate scaling of our expenditure to a level with which these countries are supposed to be living." Moreover, while we are "stepping up" our outlay, other leading countries are likely to be making considerable advances on their existing standards in this respect. Tax allowances for research might

be extended; but no direct financial State aid should be accepted, as this would involve an extension of public control.

Types of Research

If the report furthers the integration of the demands of universities, technical colleges and industries in this field, it will have conferred a signal benefit. Experienced readers will have been prepared to find caustic comment on the poverty of university and technical college equipment and on the shortage of trained workers. But there is more to be found. In the first place, the view is expressed that, largely owing to the defects of our educational system, much potential ability has run to waste; secondly, teachers and research workers need to be relieved of "an ever-growing mass of routine labour" which could be equally well undertaken by laboratory assistants. Further, "in many fields the distinction between fundamental and applied research has very little meaning"; and it is untrue that research under business and under academic auspices requires "persons of essentially different qualities and temperaments." If this is so, interchange between these two classes should be made easier. Suggestions to this end are made—for instance, refresher courses at universities for research workers engaged in industry, and a common system of superannuation. The matter does not end there: it is desired that the work of industrial designers should be "entirely integrated with other aspects of applied research"; and the authors of the report give a passing glance at what is called "economo-technical research," which, it is remarked, may have a far-reaching influence "in pointing to the right application of scientific methods, in providing incentives for improving productive efficiency, and in raising the general quality of manufactured goods."

Varying Needs

Different industries have, it is noted, very different needs in research: the processes of some change rapidly, those of others remaining relatively stable. The contrast between the position of large firms, able to maintain their own laboratories, and that of smaller firms, for which the risk of failure in similar attempts is high, is

emphasised, and the difficulties of small firms in this respect are considered with sympathy. Whether an "easier interchange between the scientific and other staffs of the larger and the smaller firms" is practicable may be doubted. An important point about the replacement of obsolete machinery is made in the remark that "it is sometimes impossible to scrap machines without scrapping human beings as well." The value of calling actual users of processes into consultation at an early stage is pointed out. The employment of "operational research" is also stressed: by that expression is meant "the study simultaneously from a number of different angles, and by the use of a number of complementary techniques, of the practical working of the existing *operations* of production and distribution, with the purpose of securing their adequacy and correct adaptation. . . ."

Specific Team-work

Delimitation between the research work of universities, technical colleges and industrial houses is, naturally, a feature of the report. There will be so general an agreement with the conclusions drawn that we need not refer to them in detail. One remark may occasion some surprise:—

" . . . it is perhaps necessary to put in a special plea on behalf of the biological departments, which have a large amount of leeway to make up. . . . The demand for biologists in the post-war world—and for first-class biologists at that—is bound to be very large; and we are ill-equipped to supply it."

Here we may take leave of a report of great significance to all who would understand the nature of scientific research and its rightful place in the community. It may be that money will be more readily forthcoming for applied research than for pure research; but with the example of munificent benefactors in mind, both kinds may be destined to fare equally well. It must not be forgotten that pharmacy has a specific contribution to make to research. For workers in this field we may quote the wise reminder of the authors of the report that research workers "work best, not when they live to their own specialised research alone, but when they possess and are

possessed by an awareness of the rest of their problems to those of students in other fields, and are in intimate contact with research workers who are asking questions and employing other methods

Report on Medical Schools

FUNDAMENTAL changes in the training of doctors, to meet the requirements of a comprehensive National Health Service, are recommended in a unanimous report published by the Inter-departmental Committee on Medical Schools on July 20. The recommendations include drastic overhauls of undergraduate training; greater emphasis on social medicine, promotion of health, prevention—as well as cure of disease, children's and mental health; co-education in all medical schools; an equality in hospital appointments; increased Exchequer grants for medical education and research; greater financial help for students; reform of the examination system; compulsory hospital appointments after qualification and before entry into independent practice; changes in policies and organisation of medical schools and teaching hospitals; more whole-time teachers, and salaries for part-time teachers; comprehensive training of specialists; development in London of a world centre of post-graduate medical education and research; and the linking of all major hospitals with teaching centres.

Change of Outlook Urged

The Committee points out that changes in medical education necessary to meet the requirements of a comprehensive National Health Service must take time to become fully effective. Many of the reforms which it proposes depend on the building-up of an adequate supply of teachers, a change of outlook on the part of teachers and examiners, and the remedying of serious deficiencies in accommodation and equipment. Increased expenditure is necessary to remedy defects in the present arrangements, secure provision for medical students, and develop post-graduate education and research. It is estimated, for example, that the total of capital expenditure that should be incurred, including outlay of teaching hospitals on facilities

g and research, may, within ten years, amount to £10 millions at pre-war. In addition, the amount of recurrent charges will, within the same period, have increased yearly from £700,000 a year (approximate amount before the war) to £10 millions and £4 millions a year at 1944 values, representing about 2 per cent of the estimated cost in the first year of the National Health Service.

1 Practitioners of the Future

Committee considers that the training of medical students on modern lines should be conducted only under the aegis of a university, or in institutions that conform to university standards. The instruction should have a definite bias towards the needs of the future general practitioner. Reforms in organisation of medical schools and teaching hospitals should be accompanied by ruthless pruning of the curriculum and overhaul of the examination system.

It is considered that reforms in medical education will be largely sterile unless the system of examinations changes in conformity with them. In order that the standard of final examinations may be raised, and students encouraged to pay attention to all parts of the training, a system of "internal" departmental examinations is suggested in suitable subjects as a complement to the final examination. An important recommendation is that each student, after passing his final examination and before being admitted to the Medical Register or admitted to enter independent practice, should complete a twelve-months' appointment in hospital.

Medicine and Child Health

Committee considers that if medical students are to be fitted to become health workers and members of a National Health Service, the ideas of social medicine must dominate the whole of medical education. The orientation of medical education, a sensible expansion of the social work in existing hospitals, and radical changes in the outlook and methods of most of the workers, are involved. The report emphasises that, to safeguard its own future, the Service must improve its provision for the care of children, and that these improvements

will extend to a considerable degree beyond the immediate sphere of medicine.

Supply of Doctors

In a report on Medical Manpower (Appendix A) by the Government Actuary, it is calculated that, if the total entry of students is enlarged to 2,500 or more, the supply of doctors in civilian practice in Great Britain will grow to at least 50,000 by 1953 and 55,000 by 1958 (increases of approximately 5,000 and 10,000 respectively). This increase in the entry of students is within the capacity of existing schools, and the Committee suggests that the first objective should be an expansion of those existing university schools which are below an economic size (normally 100 students a year), rather than the creation of new schools. Copies of the report may be obtained from H.M. Stationery Office, York House, Kingsway, London, W.C.1, price 4s. 10d., post free.

Self-Medication Among the Healthy

The main conclusion from a survey carried out at Bristol recently (see p. 174), into the taking of medicines otherwise than under medical supervision, was that the consumption of such medicines today is dependent, not on physiological or pathological demand, but on propaganda and suggestion. Occupation of the user, according to the survey, affects the issue quite considerably, sex very little, and age not at all.

Persons questioned during the survey totalled 277. They comprised workers in light engineering factories, offices, laboratories and laundries, as well as full-time Civil Defence personnel. All were given a list of classes of medicine and asked whether, how often, and for what purpose they took any of the medicines in the classification. The total of 277 was considered "rather too small" to submit all the findings to statistical analysis, for when broken down into small groups there were too many void categories, but they were not considered too small, apparently, for the general conclusion that there seems to be "no real need for any patent medicines of any sort, and that the present demand is almost entirely

the result of advertisement." So broad a conclusion from so comparatively small an investigation must tend to vitiate the comments of the author in the eyes of many of those who have an inside knowledge of the proprietary medicines trade. It would be a pity, however, if that were to cause the

statistics, which are of undoubtedly value when taken in their proper perspective, to be disregarded. We may echo the author's hope that the present investigation is the first of a series from which it eventually may be possible to obtain authoritative findings.

A SURVEY OF SELF-MEDICATION

THE opportunity was taken in Bristol recently to question volunteers brought together for another purpose upon whether, and the extent to which, they were users of popular remedies without going to the

among office staffs and lowest among door workers. Three women were who took aspirin daily to prevent aches. One woman took two tablet proprietary headache compound four-

	Total	Male	Female	Factory		Office		Laundry		Laboratory		A
				M.	F.	M.	F.	M.	F.	M.	F.	
Persons questioned ..	277	149	128	72	33	9	14	5	46	17	2	25
Not taking medicines ..	70	42	28	20	4	3	4	3	11	1	—	6
Taking medicines ..	207	107	100	52	29	6	10	2	35	16	2	19
Aspirin ..	89	32	57	12	14	—	3	2	27	10	1	3
Headache powders ..	9	4	5	2	1	—	1	—	2	2	1	—
Sedatives ..	1	1	—	—	—	1	—	—	—	—	—	—
Nerve tonic ..	4	3	1	1	1	—	—	—	—	—	—	—
Iron ..	8	3	5	1	4	—	—	—	—	—	2	—
Vitamins ..	8	7	1	1	—	—	—	—	—	1	6	—
Yeast ..	2	1	1	—	—	—	—	—	—	—	1	—
Total salines ..	67	40	27	26	8	5	4	—	4	9	1	—
Saline A ..	49	31	18	20	8	4	3	—	3	7	—	—
Vegetable laxative ..	38	23	15	14	4	1	1	—	5	3	—	—
Vegetable laxative B	14	8	6	7	2	—	—	—	4	—	—	—
Oily laxative ..	2	—	2	—	1	—	1	—	—	—	—	—
Stomach medicine ..	7	5	2	3	—	—	—	—	2	—	—	1
Liver mixture ..	2	1	1	—	1	—	—	—	—	—	—	—
Kidney mixture ..	—	—	—	—	—	—	—	—	—	—	—	—
Bowel medicine ..	4	2	2	2	1	—	—	—	—	—	—	—
Rheumatism medicine	1	1	—	1	—	—	—	—	—	—	—	—
Cough mixture ..	11	8	3	3	—	—	1	—	—	4	—	—
Skin ointments ..	8	5	3	1	—	1	1	—	—	2	—	—
Herbal remedies ..	2	2	—	2	—	—	—	—	—	—	—	—

doctor. The results, given by Davies in the "British Medical Journal" (July 15, p. 87), are summarised in the table above.

Aspirin Daily

Every person over fifteen in the assembly was questioned, and the questioners reported that they invariably answered "cheerfully and courteously and without embarrassment." The omission of substances for sexual disabilities and venereal disease was intentional, of cold preventives accidental. Among females the proportion using medicines was 78 per cent, against 72 per cent. among males. Age made virtually no difference. The use of laxatives was highest

three days a week to ward off headache. "And very successfully, it appears, for she never has headaches; but she is lucky, for the Government has protected her from the worst things, for the tablets she takes contain amidopyrine until placed on the Fourth Schedule." Despite extensive advertising, only eighteen persons were found who used medicines of the "preventive" type (iron, vitamins, etc.), although it is apparent that many of the women need iron. The "more extravagant and expensive" remedies were not used much, and there was a genuine desire for information among all those questioned, the majority of whom were "ostensibly healthy people."

BIOCHEMISTRY AND PHARMACY (I)

D. Whittet, Ph.C., D.B.A. (Pharmaceutical Department, Charing Cross Hospital, London)

CENT suggestions by Sir Henry Dale for the future of pharmacy, expressed in his Hanbury Memorial to the Pharmaceutical Society (J. January 22, p. 96), are of considerable importance to pharmacists. Sir emphasised that the modern trend in medicine is towards a rational application of scientific methods in attacking the causes of disease, rather than concentrating on the symptomatic treatment. Many new forms of therapy require careful control by analysis of the body fluids, and Sir Henry suggested that the pharmacist, by virtue of his chemical training, is well suited to undertake the work. The Council of the Pharmaceutical Society had already recognised the importance of the trend in medicine by instituting the Diploma in Biochemical Analysis in 1933 and introducing this subject into the qualifying examinations. While the establishment of the pharmacological laboratories encouraged pharmacists to play an important part in the standardisation of drugs by chemical methods. The fact that in 1944 the Hanbury medallist (Sir Henry) and the Harrison medallist (Dr. A. J. Harrison) are outstanding figures in the field of pharmacology and chemotherapy itself shows that the subjects are of increasing importance in pharmacy.

biochemical Diploma Syllabus

The syllabus for the biochemical diploma is comprehensive, and a pharmacist who has obtained it is well equipped to undertake the biochemical investigations required in general practice or in hospital. The diploma has become the most popular of the Society's post-graduate certificates, and the number of graduates remains comparatively small. Apart from the interest of the subject to hospital pharmacists, there is also an opportunity for those in retail practice to provide valuable service to the profession in areas where there is no hospital service. Many drugs, introduced into medicine in recent years, need to be controlled by biological tests, and it is important that the pharmacist, who prepares and distributes them, should also take part in these investigations. In a series of articles the writer proposes to review the important biochemical investigations which may be undertaken by pharmacists, and particularly with tests of importance.

in controlling treatment by various pharmaceutical products.

The routine qualitative examination of urine is, of course, still carried out in most hospitals, as well as in medical examinations for life insurance purposes, etc. The results, though not usually conclusive in themselves, may suggest further examinations leading to the diagnosis of serious conditions. The usual preliminary tests are for appearance (colour, turbidity, deposit, etc.); reaction to litmus; presence of protein; and presence of reducing substances.

Normal urine is clear and bright, and of an amber colour, varying in intensity according to concentration. In abnormal urine, turbidity may be due to bacteria, and unusual colour to the presence of blood, pigments, or drugs.

Blood Urine Tests

Blood may be present in urine as intact red cells (haematuria), or as haemoglobin in solution (haemoglobinuria). The best test for the former condition is microscopic examination of centrifuged deposit, in which the corpuscles can readily be identified. This test reveals blood in quantities too small to impart a red colour to urine, and gives results where chemical tests may be negative. Haemoglobinuria may be detected by chemical tests or by spectroscopic examination of a column of urine.

Spectroscopic examination is important in identifying haemoglobin in urine, and also for recognition of other blood pigments. The blood derivatives, and most of the bile pigments, can be recognised by spectroscopic methods, details of which have been outlined by Harrison ("Chemical Methods in Clinical Medicine," 1937. X. 208).

Abnormal Pigments

The common conditions in which abnormal pigments occur in urine are jaundice (urobilin), alkapturia (homogentisic acid), melanuria and indicanuria. With the exception of jaundice, these conditions are rare, and the reader is referred to larger works for details. Many drugs affect the colour of urine, and examples will readily occur to the pharmacist. Harrison (XI. 233) gives an excellent scheme for the examination of urines abnormal in colour or containing drugs and their products.

The acidity-alkalinity reaction of urine is important in treating urinary disease by

means of mandelic acid, when the *pH* should be between 4.8 and 5.3. It should be checked frequently by means of a Lovibond Comparator.

Protein Tests

Since other proteins than albumin may be present in urine, the older term albuminuria should be replaced by proteinuria. The familiar standard tests available in text-books need not be enumerated, but the following precautions should be noted—

(a) It is essential that the urine should be clear, before testing, otherwise false positive results will be recorded.

(b) In the boiling test, the reaction should be just acid to litmus. If too acid, protein may be missed; if too alkaline, earthy phosphates are precipitated.

(c) Mucus, which is normally present in small amounts, is precipitated in the cold by acetic acid, whilst Bence-Jones protein is precipitated between 40° and 60° C.

The discovery of protein naturally leads to an examination of deposit from centrifuged urine and, if abnormal casts are found, to renal efficiency tests. Such tests will be described in a later article. A point of interest to pharmacists is that the urine of patients is always tested to make sure that protein is absent before gold treatment for arthritis or tuberculosis is prescribed.

Reducing Substances

With reducing substances it is again not necessary to give details of the common tests, but the following points are of importance—

(a) Many substances other than glucose reduce the cupric solutions used in the tests.

(b) Other sugars than glucose may be present (e.g. lactose in pregnancy).

(c) Many drugs are detoxicated by conjugation with glycuronic acid, and this substance reduces Fehling's and Benedict's solutions.

Only when typical symptoms of diabetes mellitus are present, together with a reducing substance in the urine, is it justifiable to assume that the latter is glucose. If it is essential to identify the reducing substance, however, a scheme given by Harrison (VI: 110) is useful for reference purposes. When the presence of dextrose is confirmed, it is advisable to test for acetone bodies by either Rothera's or Gerhardt's test, and if such bodies are present to perform a glucose tolerance test in order to confirm or exclude diabetes mellitus.

Test for Vitamin C

The discovery of vitamins and elucidation of their chemical structure marked a advance in knowledge of nutrition; orders. As a consequence, it is now possible to measure some deficiencies by biochemical tests. One of the simplest and most tests is that for vitamin C (ascorbic acid) in urine. The test has recently been introduced into the syllabus for the I. examinations. The "saturation" described by Harris ("Lancet," 1942) is now generally employed, the principle is as follows. The patient is given a large dose (600 mgm.) of pure ascorbic acid, and the amount excreted in the urine is measured. This is done by titrating urine against a standard solution of 2 : 6 dichlorophenolindophenol until the colour is just discharged. A person with good vitamin-C nutrition immediately shows a large increase in output; in the scorbutic state a small increase is seen; in acute scurvy the output is not increased. The estimation of ascorbic acid in urine by titrating with dichlorophenolindophenol has been criticised by Richter and Croft ("Lancet," 1943, I, 802). These workers point out that the test does not give a true value account of the varying amounts of sulphite and other reducing substances present in the urine. However, in the saturation test the high concentration of ascorbic acid in the urines reduces the error to negligible proportions. If, for this reason, the resting level is required, the error is of more consequence, and the authors recommend removal of sulphite by precipitation with lead acetate followed by centrifuging or filtration. A clear solution is then titrated with the

Nicotinic Acid and Aneurin

Biochemical methods are also available for the determination of two members of the vitamin-B complex: nicotinic acid and aneurin (vitamin B₁). These are somewhat more complicated methods than for vitamin C, the former needing a Pulfrich colorimeter and the latter an ultra-violet spectrometer. The method for nicotinic acid was described by Harris and Raymond ("Biochemical Journal," 1937, 33, 2037), and is based on the König reaction. It has the advantage that it is not vitiated by vitamin B₁ or trigonelline (related chemical structures often present in urine). The urine is heated with caustic soda to convert any amino acid, and the urine is heated with cyanogen bromide, cooled and treated with *p*-acetophenone. After being allowed to stand for a time, the solution is titrated with

the specimen is acidified and the compared with samples containing amount of nicotinic acid. From ults, a graph is drawn and the of nicotinic acid in the original is calculated. The method for was recently described by Wang arris ("British Medical Journal," 451). It depends on the oxidation urin to thiochrome by means of ferricyanide and hydrogen peroxide. The thiochrome formed is extracted obutanol and its fluorescence in light is compared with that of a derived from a known weight of urin.

amides in Urine

ological determination that is increasingly important is for the amide content of urine. It was

introduced into the D.B.A. syllabus at the same time as the vitamin-C determination. The method usually carried out is that of Bratton and Marshall ("Journal of Biological Chemistry," 128, 537). Several dilutions of urine are made and treated in the following way—

(1) Acidify and add a quantity of sodium nitrite solution. Allow to stand for three minutes.

(2) Add ammonium sulphamate solution and allow to stand for two minutes.

(3) Add some solution of *N*(*l*-naphthyl)-ethylenediamine dihydrochloride: a purplish red colour results.

The appropriate dilution is compared in a colorimeter with a standard solution of the sulphonamide under test, treated in the same way. When the colours are matched, the amount of sulphonamide in the urine can be calculated.

NEW BOOKS

Pests of Food.—Pp. 144. H.M.ery Office, York House, Kingsway, W.C.2; price 5s. net. The volume is under one binding the pamphlets, of the Lepidoptera Found in Stored products" (H. E. Hinton, Ph.D.), and for Identification of the Lepidoptera g Stored Food Products" (A. Steven D.Sc., and W. H. T. Tams, F.Z.S.,), both of which were prepared, the direction of the Keeper of the ent of Entomology, British Museum (Natural History), primarily for the use of rs of the Directorate of Infestation, Ministry of Food. The illustrations are numerous and clear, and the five plates show 121 moths.

Medical Care for Citizens.—8½ in. by 5½ in. (Political and Economic Planning, 10, Anne's Gate, London, S.W.1.) Issued as a broadsheet, this 56-page document issued by P.E.P. is in the nature of a "report" dealing with the medical services of the same organisation in It amounts to an examination both principles underlying the White Paper, with their probability of proving ful, and of the reactions of the Medical Association towards them, of which are the subject of frank ns. Describing the White Paper as a medical rather than a health plan, P.E.P. points out that the Government is committed to the dissolution of the present National Health Insurance scheme. The n of "whether," it affirms, is already

decided; only the "how" is at issue. Claims by the doctors to expert rather than lay control are dismissed as subordinating "consumer" to "producer" interests, and as substituting, in effect, control of the doctors by medical politicians for control by the ordinary processes of a democratic system. As the point has a bearing on what some pharmacists are demanding for pharmacy, P.E.P.'s solution (of regarding the Health Service's Councils as the proper place for the experts) demands the fullest examination. The councils "offer doctors and other health workers an unrivalled opportunity, which no other profession enjoys, of pooling forces to make their views effective." The report, like others of its kind, makes scant mention of pharmacy, but "all ancillary services, including home nursing, health visiting, and midwifery, should ultimately be based on the health centre. A pharmaceutical department should provide medicines, appliances, and generally take charge of medical supplies, although for a considerable time the bulk of the dispensing work for the public service may still have to be done from individual chemists' shops." With its remark that "only since the Boer War, and chiefly by combining in the B.M.A., have doctors succeeded in securing a proper measure of recognition and of remuneration," it should prompt pharmacists to look to their own position. If profit-earning and salaried pharmacists pull different ways, will either recognition or remuneration be secured "in proper measure"?

DOCTORS' ANSWERS TO N.H.S. QUESTIONNAIRE

In what is claimed to be a world record for the number of forms sent out (53,728), and the number (25,435) and proportion (48 per cent.) of replies received, the British Medical Association has recently, through the British Institute of Public Opinion, acquainted itself of the views of its members on the Government's White Paper on a National Health Service. Many of the results are tabulated on this page, and the following notes should be read in conjunction with the table. Of those doctors who considered that the administrative structure

envisioned by the White Paper was unsatisfactory, 3 per cent. suggested that control should be entirely in the hands of the profession, 12 per cent. that the arrangement should be in the hands of a Council elected by the profession, and 7 per cent. urge a medical corporation on the lines of the British Broadcasting Corporation, to be elected by the profession, while small numbers gave alternative possibilities such as the elimination of the Minister (leaving executive powers in the hands of the Central Health Services Council).

QUESTION (abridged)	For	Against	Don't know
On the whole, are your reactions favourable or unfavourable?	39	53	6
Should the National Health Service include everyone, or should 10 per cent. (the upper income group) be excluded?	60	37	2
Do you think the proposed central administration (Minister of Health, Ministry of Health, Central Health Services Council) satisfactory or unsatisfactory?	35	51	7
Should the Central Health Services Council have the right to publish: (a) an annual report, (b) its advice to the Minister?	(a) 91 (b) 91	3 4	— 4
Should hospital and specialist services be available to everyone in a general ward, free of charge?	69	28	1
Do you think the proposed arrangement of joint boards covering large areas representing constituent local authorities and advised by local Health Services Councils satisfactory or unsatisfactory?	13	78	8
Should general practitioners be under contract with a Central Medical Board?	55	31	12
Should an N.H.S. patient be able to secure private treatment on a specific occasion from: (a) his own N.H.S. doctor, (b) another doctor?	(a) 58 (b) 70	36 14	3 4
Do you consider that the White Paper observes or infringes the principle of free choice as between doctor and patient?	32	58	9
Is it reasonable or unreasonable that the Central Medical Board should have power to refuse to allow a doctor to practice in an area where it is considered there are already enough or more than enough doctors?	57	39	4
Should young doctors be required to give their early years to the public service?	31	66	2
Do you approve the principle of Health Centres?	68	24	6
Should the sale of: (a) publicly remunerated practices, (b) all general practices cease?	(a) 33 (b) 33	52 56	13 10
Can private practice continue: (a) for a general practitioner, (b) for a consultant or specialist?	(a) 30 (b) 42	57 34	10 18

n that the Minister of Health should be himself a qualified medical man.

Representation on Joint Boards

About four-fifths of those who replied wanted to see doctors and other workers directly represented on the Joint Boards representing the constituent local authorities (1) and about three-quarters wanted direct representation on the Joint Boards of medical faculties of universities and of voluntary hospitals. Asked what form of health centre they would prefer, 15 per cent. of those replying favoured a communal doctors' surgery (as envisaged in the White Paper); 10 per cent. a cottage-

hospital type, with beds; 14 per cent. an investigation centre of purely diagnostic type; and 42 per cent. a centre in which both preventive and curative work was done. 28 per cent. favoured the remuneration of doctors employed at health centres by payment of a salary; 34 per cent. a basic salary plus capitation fees; 23 per cent. payment on the basis of a pooling of capitation fees. The average computation of a proper remuneration for consultants was £2,520 without pension and £2,000 with pension at sixty-five; for general practitioners, £1,620 without pension and £1,280 with pension; and for young doctors £520 per annum.

TRADE MARKS

(From "The Trade Marks Journal," July 19)

"**YSOL**"; for penetrating oils (mineral) (4). By Bryce Weir, Ltd., Balmoral Road, Watford. 627,336.

"**AVITA**"; for liquid medicines (5). By Ferritone Products, 12 Cambridge Road, Newtown, St. Helens, Lancs. B620,174.

"**UNLIFE**"; for medicinal preparations (5). By Sun-o-Life Co., Ltd., 38 Mason Street, Swan Street, Manchester, 4. 628,089 (Associated).

"**MILLOSAN**"; for medicated ointments (5). By Camden Chemical Co., Ltd., Northington Street, London, W.C.1. 628,417.

"**NAFORM**"; for liquid disinfectants containing pine extract (5). By Brook, Parker & Co., Ltd., Horton Road, Bradford, Yorks. 28,513.

"**AVIRON**"; for hormones, medicinal and pharmaceutical, for human use (5). By British Schering, Ltd., 185-90 High Holborn, London, W.C.1. 628,599.

"**RON**"; for weed killers, disinfectants, etc. (5). By J. R. Geigy Société Anonyme, c/o I. Imrie & Co., 72 and 74 Cannon Street, London, E.C.4. 628,623.

"**LITOX**"; for disinfectants, weed killers, etc. (5). By Solidol Chemical, Ltd., Ashmead House, Disney Street, London, S.E.1. 628,660.

"**PRO**"; for pharmaceutical preparations and vaccines (5). By Enzyme Products, Ltd., 97-11 Fleet Street, London, E.C.4. 628,847.

"**AVITE**"; for medicated chocolate sweet-heats (5). By Merseyside Food Products, Ltd., 51 North John Street, Liverpool, 2. 28,674 (Associated).

"**P**"; for hand implements for setting and sharpening razor blades (8). By R. & W. Winter & Co., Ltd., Loman Street, London, E.1. 628,385.

"**AL**"; for surgical apparatus, crutches and artificial limbs (10). By Munster, Simms & Co., Ltd., Donegall Square, E., Belfast. 28,176.

"**TR**"; for rubber articles (17). By H. G. W. Hichester-Miles and W. O. Street, Stepping Stones, Kingsbourne Green, Harpenden, Herts. 624,189 (Associated).

"**LUSTOGLO**"; for perfumes, toilet preparations, soap, mouth-washes, etc. (3). By P. Williams, 122 Promenade North, Blackpool. B628,331.

"**JAMAL**"; for toilet lotions and sachets for the hair (3). By Sales Affiliates, Ltd., Elstree Way, Boreham Wood, Herts. 628,986 (Associated).

"**PYLATUM**"; for pharmaceutical preparations for the treatment of piles (5). By Branded Pharmaceuticals, Ltd., Little Russell Street, London, W.C.1. 627,604.

"**PROMIZOLE**"; for pharmaceutical preparations, human and veterinary (5). By Parke, Davis & Co., 50-54 Beak Street, London, W.1. 628,397.

"**SECTIDE**"; for insecticides (5). By A. Ibbetson & Co., Ib-co Works, Great North Road, Stevenage, Herts. 628,921.

"**VALKEM**"; for razor blades (8), and photographic apparatus, optical instruments and lenses (9). By Unichem, Ltd., 219 Upper Tooting Road, London, S.W.17. 625,781-82.

"**NESTLÉ'S**"; for infants' feeding bottles, teats and valves (10). By Nestlé's Milk Products, Ltd., 6 and 8 Eastcheap, London, E.C.3. 625,183.

(From "The Trade Marks Journal," August 2)

"**KEN**"; for eau-de-cologne, toilet preparations (3). By Kenrosa, Ltd., 152 Clarence Road, Clapton, London, E.5. 624,317 (Associated).

C. & D. Quiz No. 34.—The answers to the questions on p. 165 are: 1. Sanskrit for sandalwood, first recorded about 500 B.C. 2. *Lotus cantharidini*, B.P.C. 3. Pigment hydrarg. nit., B.P.C. 4. *Grindelia camorum*. 5. Ethylene dichloride. 6. *Cascara sagrada*. 7. A mixture of the sodium salts of chaulmoogric acid and other fatty acids from oil of chaulmoogra; it was formerly believed that this oil was obtained from *Gynocardia odorata*, but this was shown to be wrong by Desprez in 1899. 8. Knorr, 1883. 9. Kamala, the hairs and glands of the fruits of *Mallotus philippinensis*. 10. *Spiritus resorcinolis*, B.P.C.

TRADE REPORT

Spot quotations for pharmaceutical chemicals, crude drugs and essential oils represent the prices for wholesale quantities of standard quality. C.i.f. quotations do not include marine war risk insurance and other abnormal charges payable in the present emergency.

28 Essex Street, W.C.2, August 9

THE London drug and chemical markets have reopened after the brief holiday break on a quiet note, with business certainly no greater in volume than recent average. The general tone, however, is quite steady with only very few alterations in values. Demand for PHARMACEUTICAL CHEMICALS has been of a routine character and prices generally are quite steadily maintained. The CRUDE DRUGS section of the markets has experienced some small inquiry, but business on the whole continues to be confined to the filling of small orders for goods required for immediate consumption. A fair demand is reported for BENZOIN but supplies are not large. CAMPHOR may still be had in small compass by approved buyers. CARDAMOMS and other SPICE PRODUCTS are quiet and about unchanged. A small demand is noted for DIGITALIS LEAVES, prices of which are unaltered. MENTHOL remains in good demand but supplies are difficult to locate. Some further inquiry is reported for RHUBARB with quoted prices keeping steady. SEEDS are in short supply, but inquiry is negligible. TRAGACANTH is in request, with prices of the medium grades at last-quoted levels. WAXES are steady. Nothing of interest has occurred during the past few days in ESSENTIAL OILS. The Ministry of Food announces that there will be no change in the existing prices of unrefined oils and fats and technical animal fats allocated to primary wholesalers, and large trade users during the four weeks ending September 2.

Balsam of Peru and Storax

The Directorate of Medical Supplies have informed the Botanical Drug Importers' Section of the London Chamber of Commerce, 69 Cannon Street, London, E.C.4, that they propose to recommend import licences for limited quantities of balsam of Peru and storax during the twelve months ending July 31, 1945. For this purpose, therefore, the Botanical Drug Importers' Section will be glad to hear, not later than August 19, from firms who, during the years 1937 to 1942 inclusive, imported balsam of Peru or storax. By "imported" is meant arranged the shipment and paid the overseas supplier. On receipt of this

information the Section will send qualified importers the necessary forms of declaration on which a return of importations can be made and which will form the basis of the Section's recommendations to the Directorate of Medical Supplies.

Exchange Rates on London

During July the foreign exchange rates on London remained steady. Bank of England fixed rates include New York, 4.03 dollars; Montreal, 4.45 dollars; Dutch West Indies, 7.60 florins; Lisbon, 100 escudos; Stockholm, 16.90 kroner. The Spanish rate is unchanged at 44 pesetas, and the Chinese national dollar at 3.75d.

Pharmaceutical Chemicals

ASPIRIN.—Demand continues fair, with prices unchanged. Currently quoted rates per lb., quantities of 28 lb.—1 cwt., are as follows (containers in brackets): 4s. (1-lb.); 3s. 10d. (4-lb.); 3s. 9½d. (7-lb.); 3s. 9d. (14-lb.); 3s. 8d. (28-lb.).

BORIC ACID.—B.P. quality is quoted by makers as follows: Granulated, £70 per ton; crystal, £71; powder, £72. Packed in one-cwt. bags, delivered carriage paid in Great Britain, in one-ton lots and upwards. Commercial grades, £8 per ton less.

CAFFEINE.—Quantities of 7 lb.—28 lb. quoted per lb. as follows (supplies subject to D.M.S. approval): ALKALOID B.P., 34s.; C.RATE, 23s.; SODIUM BENZOATE, 23s.; SODIUM SALICYLATE, 23s. 9d. Tins extra when supplied.

CALAMINE, B.P.C.—Steady at 1s. 8d. per lb. for 7-lb. lots, and 1s. 6d. per lb. for 28-lb. lots.

DIAMORPHINE.—Current rates per oz. small quantities are as follows: ALKALOID ½ oz., 54s.; 1 oz., 51s. 6d.; 2 oz., 50s.; 3 oz. 49s. 3d.; 4 oz., 49s. HYDROCHLORIDE.—½ oz., 49s.; 1 oz., 46s. 6d.; 2 oz., 45s.; 3 oz., 44s. 3d.; 4 oz., 44s.

HOMATROPINE.—Makers' prices per oz. as follows (prices per gram in brackets): ALKALOID, 1 oz., 97s. 6d.; 4 oz., 92s. 6d.; 16 oz., 87s. 6d. (6s.). HYDROCHLORIDE, HYDROBROMIDE and SULPHATE, 1 oz., 75s.; 4 oz., 90s.; 16 oz., 65s. (3s. 2d.).

PILOCARPINE.—Makers quote at the following rates per oz.: Base, 1 oz., 27s.; 4 oz., 21s. 3d.; 8 oz., 20s. 9d.; 25 oz., 20s. 3d. Nitrate, 1 oz., 18s. 6d.; 4 oz., 18s.; 25 oz., 17s. 6d.

SANTONIN.—Home-trade prices are as follows: 10 kilos and over, £62; not less than 5 kilos, £63; 2-4 kilos, £64; 1 kilo, £65; 500 gm., £66; 250 gm., £67; 100 gm., £68; less than 100 gm., £69 per kilo. Carriage paid in United Kingdom.

Crude Drugs

ARECA NUTS.—Wormy Ceylon may be obtained on spot at 105s. per cwt., ex store.

BALSAMS.—Position and prices unchanged. *u*, spot, 7s. 9d. per lb.; *Canada*, 10s.; *Tolu* & *Copaiba* are unobtainable.

HELLADONNA.—Indian leaf is nominal on spot at 5s. 3d. per lb.; Indian root, 0·36 per lb., offered at 330s. per cwt.

BENZOIN.—Any available spot supplies of *natura* would cost £35 and upwards per cwt. in almond block, spot, £55.

HAULMOOGRA.—*Hydnocarpus*, spot, 1s. 6d. lb., in tins in cases.

HILLIES.—The only variety offered is *nbasia*, price of which would be 115s. per cwt.

LOVES.—Zanzibar, unchanged on spot at 4d. per lb.; to arrive, unquoted.

DIGITALIS LEAVES.—Portuguese leaves in demand on spot at 140s. per cwt.; English-*vn*, 2s. 6d. per lb.

ENBANE.—Indian leaf is available at from 6s. to 275s. per cwt., according to holder; some low-testing material may be had at 1s. 6d. per lb.; Russian leaf, 350s. per cwt.

ABORANDI.—In small supply at 52s. 6d. per lb.

AMALA.—Material with 6 per cent. ash would be worth 2s. per lb.

GUORICE ROOT.—Russian root, for pharmaceutical use, 85s. per cwt.; small supplies single-peeled Syrian, spot, 110s. per cwt., subject to D.M.S. approval.

ENTHOL.—Demand continues, but no supplies are available.

HUBARB.—In fair demand at unchanged. Rough-round, spot, 10s. 6d. to 11s. per lb.; Shensi irregular shapes, 14s. per lb.

EDS.—Quoted values are unchanged, with market quiet. **CORIANDER.**—Indian, 75s. per cwt. **CUMIN.**—Maltese, spot, 105s.; Indian, 11s. **DILL.**—125s., ex wharf. **FENNEL.**—Offered at 85s.

FENUGREEK.—May be had at 10s. 6d.

MUSTARD.—Controlled prices are unchanged.

FRERIC.—Current spot price of sound *as finger* is steady at 57s. 6d. per cwt.

LERIAN ROOT.—About 95s. per cwt. would be wanted for Indian root on spot.

AXES.—**BEES'.**—Supplies may be obtained through members of the Association of Beeswax Distributors; official prices are as follows: Crude, 260s. to 290s. per cwt., refined, 315s. to 355s.; bleached, 340s. 70s.; Calcutta, crude, 250s. to 270s.; Calcutta, bleached, 325s. to 335s.

CARNAUBA.—Grey, 440s. per cwt., ex store, in mini-one-bag lots; shipment, 390s., c.i.f.; *Feira*, 525s. to 540s. per cwt., ex store, nominal shipment, 475s., c.i.f.; medium yellow, 550s. per cwt., ex store, nominal; chalky grey, 430s., nominal; *Feira*, 377s. 6d., c.i.f. (c.i.f. prices include 1 cent. W.R.I.).

CANDELILLA.—Under 1

ton, 220s. per cwt.; 1-5 tons, 217s. 6d.; 5 tons and over, 215s., ex store. **OURICURI.**—Spot, 290s. to 330s. per cwt., as to quality.

The Ministry of Supply announces that traders in this country may now deal with any inquiries they may receive from United States importers for beeswax supplies from any source, other than Tanganyika. Supplies from Tanganyika are, by agreement, directed solely to United Kingdom and Empire countries. This is consequent upon the announcement by the Office of War Information that with the removal of beeswax from the War Production Board Imports Order M.63, as amended June 22, 1944, United States importers of this commodity are no longer restricted to purchasing only in certain specified territories. Maximum buying prices have been established by the Office of Price Administration for crude pure beeswax as under:—

Cents per lb.
(f.o.b. country
of origin)

(i) Imported from South and Central America, Mexico and the Caribbean area

38

(ii) Imported from Africa

31 $\frac{1}{4}$

Prices for territories not specifically referred to in the maximum prices regulation are subject to approval by the Office of Price Administration.

Essential and Expressed Oils

ANISE (STAR).—Price remains nominal at about 160s. per lb.

CASTOR.—Official quotation for firsts is £92 per ton, and that for seconds, £90, both naked ex works, in bulk quantities.

CINNAMON.—Leaf oil, if available, would fetch about 13s. 9d. per lb.

CLOVE.—No change in English distillers' prices at 11s. 6d. to 12s. per lb., according to quantity.

COCONUT.—Bulk quantities of refined deodorised are officially priced at £49 per ton, and refined hardened deodorised at £53.

COTTONSEED.—Controlled prices for bulk supplies are as follows: Crude, £52 2s. 6d.; washed, £55 5s.; refined edible, £57; refined deodorised, £58 per ton; all varieties quoted naked ex works.

EUCALYPTUS.—In poor supply. Oil containing 70 to 75 per cent. cineole, spot, about 7s. 6d. per lb.

GROUNDNUT.—Bulk supplies are officially priced as follows: Refined deodorised, £58 per ton; refined hardened deodorised, to 40°, £62; refined hardened deodorised, to 50° to 52°, £63; all naked ex works.

LINSEED.—The official bulk price of crude has been advanced by £2 per ton to £62 per ton, naked ex works.

NUTMEG.—English distillers' prices are unaltered at 35s. per lb., with lower rates for quantities.

OLIVE.—Edible oil is quoted at 25s. 9d. per gallon (9 lb.), ex store.

PALMAROSA.—About 55s. per lb. would be the value of small spot supplies.

PEPPERMINT.—About 190s. per lb. is being mentioned for small quantities.

CORRESPONDENCE

Correspondents may adopt an assumed name, but must in all cases furnish their real name and address to the Editor

Manchester Masonic Pharmacists

SIR,—May I draw your attention to an inaccuracy in the paragraph on Mr. T. B. Chadwick (*C. & D.*, July 29, p. 111). The Manchester and District Pharmaceutical Masonic Association has not wound up its affairs; its activities, being of a purely social character, are merely suspended during present hostilities.

Yours faithfully,

G. V. TYLER, Secretary,
Manchester Pharmaceutical
Masonic Association.

Manchester.

Shortcomings of a Pharmacist's Broadcast

SIR,—I was rather surprised at your mild approval of the broadcast feature, "Transatlantic Call" (see *C. & D.*, August 5, p. 151). I can only assume that you did not hear it. The broadcast was so bad, I wrote to the B.B.C. about it, and enclose a copy of my letter. [Extracts only given below.]

Yours faithfully,
Boscombe.

H. RIDEHALGH.

I have just heard your "Transatlantic Call" No. 76, "Drug Store or Chemist's?" 6.30 p.m. is a time when I am normally too busy in the shop to listen to the radio, but, since No. 76 concerned my profession, I made a special effort to listen. I have never been to America, but I am in regular correspondence with American pharmacists on mutual problems, and from the impressions I have formed from their letters and their professional journals, the picture given of an American drug store was quite accurate. One could sense the urgency, the bustle and the confusion and complications caused by the complexity of their business and by the shortage of staff and raw materials.

But the representation of a British pharmacy was a parody. The whole thing was inaccurate. To attempt a full criticism would take far too much paper and time. It will be simpler to tabulate the more glaring of the mistakes.

1. The bottles of coloured water in a chemist's window are not called "flasks." They are carboys.

2. Why choose an announcer who was unable to pronounce simple Latin abbreviations?

3. No sane pharmacist recommends shaving soap for washing purposes. If all chemists did this, shaving soaps would be "on coupons" before a week was out.

4. Saccharin. Any chemist reserves small stocks of scarce items for regular customers. This is sound business. Why sell scarce goods to someone you have never seen before, and will probably never see again, to the detriment of

regular customers who provided your livelihood before the war, and who will continue to do so after the war?

5. Cosmetic quota. This was a flag inaccuracy. The quota of cosmetics which are allowed is in no way concerned with aspirin or malt and oil. The two latter items are not on quota at all. We are allowed a quota of cosmetic goods dependent on our purchases, and every chemist receives his share. If Mr. Thomson hasn't had any cold cream for months it is high time he woke up.

We have our difficulties. Many drugs are in short supply. Sulphathiazole is going to R.A.F. and to our Forces. Much of the plant used in manufacturing certain drugs has been taken over by the Government for war purposes. Drugs from China and the East, drugs from the Mediterranean, drugs from Russia and America are all scarce due to war difficulties or prior to the war. This was never mentioned. The staff problem here is far more acute than in the States. It was glossed over. We are working at full pressure to cope with the day's dispensing. This was never mentioned.

[Our account of the broadcast was intended as a "mild approval" but record of facts.—EDITOR.]

MISCELLANEOUS INQUIRIES

Books on Electro-plating.—R. L. Your requirements will probably be met by one or other of the following works on the subject:—

"Principles of Electro-plating and Electro-forming" (Blum and Hogaboam). McGraw-Hill Publishing Co., Ltd., 1930.

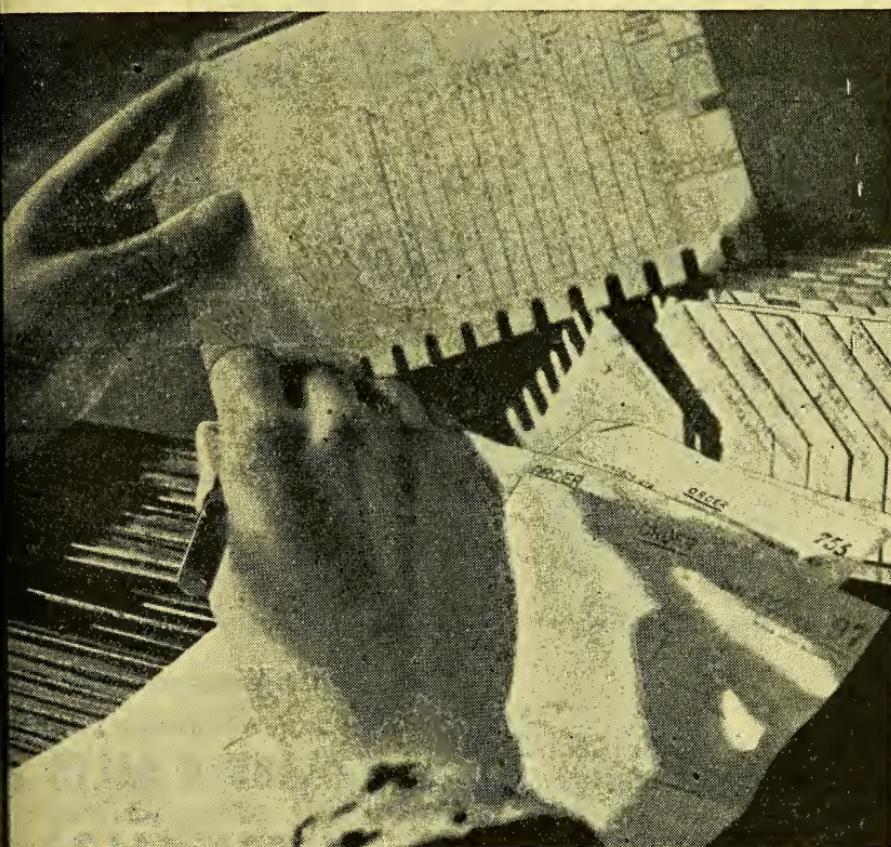
"Electro-plating with Chromium, Copper and Nickel" (Freeman and Hoppe). Sir Pitman & Sons, Ltd., 1930.

"Modern Electro-plating" (Hughes). Oxford University Press, 1923.

"Electro-plating: A Survey of Modern Practice" (Field and Weill). Sir Isaac Pitman & Sons, Ltd., Fourth edition, 1934.

Bleaching Beeswax.—J. A. H.—The bleaching of yellow beeswax is essentially an oxidising process. The best white wax is obtained by exposing the wax in thin ribbons to the action of sunlight, air and moisture. The process is somewhat slow in the absence of strong sunlight, and may be expedited by using chemical oxidants such as potassium permanganate, potassium dichromate, sulphuric acid, hydrogen peroxide, or zoyl peroxide. Whichever is used, the ribbon is washed with water after exposure to the oxidising agent, melted, again formed into ribbons, and the process repeated until the colour is regarded as suitable.

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THE CHEMIST & DRUGGIST DIARY AND YEAR BOOK, 1936

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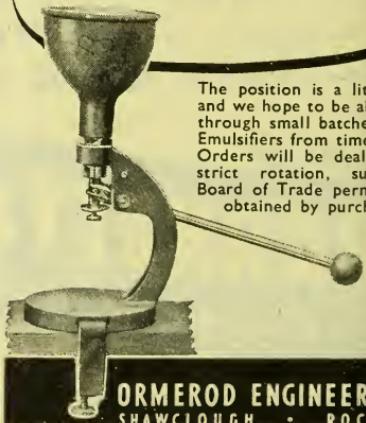
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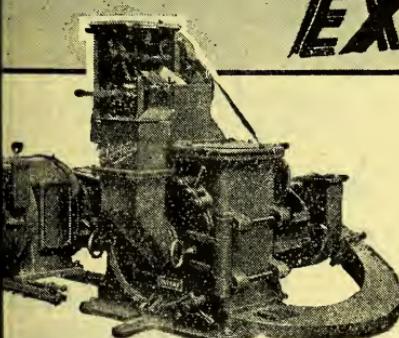
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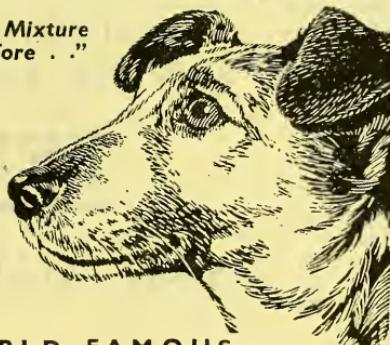
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This Supplement is inserted in every copy of The Chemist & Druggist

28, ESSEX STREET, LONDON, W.C.2

AUGUST 12
1944

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WAR RISKS INSURANCE ACT, 1939 (Part 2)

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SITUATIONS OPEN

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Employment of Women (Control of Engagements Order 1942)

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BRIGHTON. Unqualified Male Assistant with dispensing experience for high-class business. Commencing 2nd October. Apply: Superintendent, Heppells (1932), Ltd., 70 Vauxhall Bridge Road, London, S.W.1.

CHEMIST-OPTICIAN or Chemist, either sex, exempt, required to Manage old-established family Business on North-east coast. 574/571, C. & D. London Office.

DISPENSING Assistant, male or female, required for well-equipped Dispensary in Farnham, Surrey. Permanency and good prospects. Particulars to Timothy Whites & Taylors, Ltd., Retail Drug Dept., 70 Vauxhall Bridge Road, London, S.W.1.

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LADY Dispenser-bookkeeper wanted September 1 for general practice N.W. Middlesex. Shorthand and typing desirable. Interview essential. 575/605, C. & D. London Office.

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MANAGER required for branch business in Midland town. Present proprietors prepared to sell either whole or part of business on deferred terms if desired at a later date. Good opportunity for expansion. Possibilities in optics. Good photographic connexion. Apply Hickman and Metcalf, Ltd., Market Place, Newbury.

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OLDHAM Co-operative Chemists, Ltd., 1 Street, Oldham, invite applications from qualified Pharmacists for employment as Branch Mana and also for locum work.

ORRIDGE & CO., Employment Agency, Cohn House, Aldwych, W.C.2, invite inquiries from all employers seeking qualified Staff, especially London and Southern Counties, excluding wo between the ages of 18 and 41. Terms on applica

PHARMACIST, lady or gentleman, elderly exempt, Supervision work only, required country district, North Lincolnshire. Furni cottage available if required. 575/607, C. & London Office.

QUALIFIED or Unqualified Dispenser-Assis required for long-established family disper business. Other staff employed. Safe area. H. Davis (Newbury), Ltd., Chemists, 37 Northb Street, Newbury.

QUALIFIED Manager for duration. To re Owner called upon for National Service. Ei sex. Apply with references and stating required to Stratford, 12 Upper Maudlin St. Bristol, 2.

SECOND Assistant required. Unqualified Apothecaries Hall, £175 per annum. Partic to House Governor, Chesterfield and North Dshire Royal Hospital, Chesterfield, as soon as poss. **SEVERAL Vacancies** occur for First-class Pha cists, male or female. Good wages and work. Progress depends upon the applicant's abilities. State full details of experience, etc. 575/610, C. & D. London Office.

SOUTH Coast. Manager wanted for busy high- business. Apply: 575/618, C. & D. London Office.

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LONG-TERM Qualified Locums required by known Chain in the London area. Good w and third-class expenses will be paid. Application date of free period should be stated in the instance—to 575/609, C. & D. London Office.

LOCUM Pharmacist required for three weeks September. Salary, six guineas per week, lunch and tea. Apply to the Secretary and Superintendent, King George Hospital, Ilford, Essex.

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JOHN E. LIGHTBURN,
Clerk of the County Council.

County Hall, Chelmsford.
29th July, 1944.

ESSEX COUNTY COUNCIL

APPOINTMENT OF DISPENSER

Applications are invited for the appointment of ASSISTANT DISPENSER (non-resident) at the Essex County Council Hospital, Black Notley, near Braintree. Women applicants must be over 41 years of age.

Salary £175 per annum plus war bonus (at present: men, 19s. per week; and women, 15s. 6d. per week). The appointment will be subject to the Council's Sick Pay Rules and Regulations (a copy of which will be forwarded on application) and the Standing Orders of the Council. Local Government Superannuation Act, 1937, may apply. Successful applicant will be required to pass a medical examination.

Applications, stating age, qualifications, and experience, accompanied by copies of not more than three recent testimonials and marked "Appointment of Dispenser," should be addressed to me and delivered at the County Hall, Chelmsford, not later than 18th August, 1944.

JOHN E. LIGHTBURN,
Clerk of the County Council.
County Hall, Chelmsford.
24th July, 1944.

MIDDLESEX COUNTY COUNCIL

LOCUM PHARMACIST required at NORTH MIDDLESEX COUNTY HOSPITAL, Edmon- ton, N.18, from 25th September to 14th October inclusive. Salary £7 7s. per week. Application, stating age, nationality, qualifications, and experience, enclosing copies of not more than three recent testimonials, to MEDICAL DIRECTOR "L1" of Hospital immediately. Application forms not provided.

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Clerk of the
County Council.

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SMALL Round or Square Tin or Card Boxes wanted urgently. Fair price paid. Inman, 17 Montague Drive, Leeds, 8.

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WANTED, 6-oz. Bottles urgently. Any quantity over 5 gross lots. Box H/12, W. H. Smith & Son, Ltd., Manchester, 3.

WANTED, Microscopes, all models, particularly good outfits up to £300 or £400. High prices, immediate cash. Wallace Heaton, Ltd., 127 New Bond Street, W.1.

WANTED, small Malt Extract Manufacturing Plant complete. New or secondhand. Please send full particulars to Box D.J., No. 581, Erwoods, Ltd., 30 Bouverie Street, London, E.C.4.

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SMALL Progressive Factory, Newcastle-on-Tyne, bottling pharmaceutical preparations handle further suitable lines, either bottling or own account, or acting as who Good connexion Co-ops., grocers, chemists Any reasonable proposition considered. C. & D. London Office.

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